

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 4, 2005, 20:37:26 ; Search time 5458.54 Seconds
(without alignments)
10242.778 Million cell updates/sec

Title: US-10-750-262-1
Perfect score: 1195
Sequence: 1 ccgagactcagctcagctc.....ggaaaaaaaaaaaaaa 1195

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:
1: gb_eest1.*
2: gb_eest2.*
3: gb_eest3.*
4: gb_hnc.*
5: gb_eest4.*
6: gb_eest5.*
7: gb_eest6.*
8: gb_eest7.*
9: gb_gest1.*
10: gb_gest2.*
11: gb_gest3.*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1048.4	87.7	1050	AY403218	AY403218 Homo sapi
2	931.6	78.0	1045	AY403219	AY403219 Pan trogl
3	841	70.4	884	CA488012	CA488012 AGENCOURT
4	806	67.4	1211	AK010437	AK010437 Mus muscu
5	765.2	64.0	1050	AY403220	AY403220 Mus muscu
6	718.4	60.1	720	CA446381	CA446381 UT-H-ED1-
7	692.8	58.0	881	BG565247	BG565247 602582917
8	683.2	57.2	827	BG762026	BG762026 602718984
9	672.4	56.3	827	CV983083	CV983083 UMC-bm1x
10	672	56.2	710	BE875216	BE875216 60148516
11	663	55.5	697	DN997716	DN997716 TC115356
12	657.6	55.0	773	BU602279	BU602279 AGENCOURT
13	656.2	54.9	742	CX757709	CX757709 AGENCOURT
14	655	54.8	783	BI552907	BI552907 603197827
15	654.6	53.8	825	CX753134	CX753134 AGENCOURT
16	642.4	53.6	788	BG182296	BG182296 RST1161 A
17	640.8	53.1	799	CN153902	CN153902 941069 MA
18	640.4	53.1	799	BM995067	BM995067 UT-H-ED0-
19	634.2	50.2	600	BU930271	BU930271 AGENCOURT
20	600	50.0	600	AI686139	AI686139 tct2e11.x
21	598	50.0	609	CD677954	CD677954 ho24ho2.y
22	597.8	50.0	920	BE881257	BE881257 601492338

23	596.8	49.9	1003	3	BI551229	BI551229 603194629
24	589	49.3	1071	3	BM920324	BM920324 AGENCOURT
25	588	49.2	705	6	CB424830	CB424830 599432 MA
26	587	49.1	684	2	BE439545	BE439545 HTML-183F
27	586.2	49.1	609	5	BI103101	BI103101 BX103101
28	577.8	48.4	584	3	BM675259	BM675259 UI-E-ED0-
29	576.2	48.2	636	6	CD690450	CD690450 EST6973 h
30	573.4	48.0	581	3	BM714075	BM714075 UI-E-ED0-
31	559.4	46.8	891	2	BF965211	BF965211 602268114
32	554.4	46.4	581	2	BG577403	BG577403 N112 SSH-
33	553.8	46.3	773	2	BG104394	BG104394 602311010
34	550.2	46.0	779	5	BU929991	BU929991 AGENCOURT
35	534.6	44.7	661	5	BX506262	BX506262 DKF2P686E
36	521.6	43.6	600	3	BI360480	BI360480 387409 MA
37	504.8	42.2	759	6	CA509933	CA509933 UI-R-FS0-
38	499.6	41.8	705	5	BY755449	BY755449 BY755449
39	497	41.6	1007	1	AI167942	AI167942 000906.x
40	494	41.3	729	3	BO211210	BO211210 UI-R-DY1-
41	484.2	40.5	566	6	CB143042	CB143042 K-EST0196
42	476.2	39.8	654	7	CO594327	CO594327 DG3-93n7
43	475.6	39.7	696	3	BQ205543	BQ205543 UI-R-ED0-
44	474.4	39.5	1020	3	BM811413	BM811413 AGENCOURT
45	472.6					

ALIGNMENTS

RESULT 1
AY403218
LOCUS
DEFINITION
Homo sapiens STEAP gene, VIRUAL TRANSCRIPT, partial sequence.
GENOMIC SURVEY SEQUENCE.
AY403218
VERSION
AY403218.1 GI:39759201
KEYWORDS
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE
1 (bases 1 to 1050)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL
Science 302 (5652), 1960-1963 (2003)
PUBMED
14671302
AUTHORS
2 (bases 1 to 1050)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT
This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
<1..>1050
/gene="STEAP"
/locus_tag="HCM1484"
ORIGIN
Query Match 87.7%; Score 1048.4; DB 10; Length 1050;
Best Local Similarity 99.9%; Pred. No. 2.1e-232;
Matches 1049; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 36 TGGCTGAAGCCATACATATTTATAGAAATTAATGAAAAGCAAAAAGCATCACAAACCA 95
Db 1 TGGCTGAAGCCATACATATTTATAGAAATTAATGAAAAGCAAAAAGCATCACAAACCA 60
QY 96 GAAGAACTTTGGAAAATGAAAGCTTAGAGAAATTTAGAGAAACGATTATTTGCATTAAG 155
Db 61 GAAGAACTTTGGAAAATGAAAGCTTAGAGAAATTTAGAGAAACGATTATTTGCATTAAG 120
QY 156 GACACGGGAGAGACAGCATGTCTAAAGAAAGACGTGTGCTTTTGGATTGGCAAAAGACC 215
Db 121 GACACGGGAGAGACAGCATGTCTAAAGAAAGACGTGTGCTTTTGGATTGGCAAAAGACC 180
QY 216 CATGCTGATGAATTTGACCTGCTTCAAGAACTTCAAGACACAGGAACCTTTTCAACAG 275
Db 181 CATGCTGATGAATTTGACCTGCTTCAAGAACTTCAAGACACAGGAACCTTTTCAACAG 240
QY 276 TGGCACTTGGCAATTAATAAATAGTGTCTATTAATAGCATCTGTGCTTTTCACTCTT 335
Db 241 TGGCACTTGGCAATTAATAAATAGTGTCTATTAATAGCATCTGTGCTTTTCACTCTT 300
QY 336 CTGAGGGAAGTAATTCACCTTTAGCAACTTCCATCAACAAATTTTATAAATTTCA 395
Db 301 CTGAGGGAAGTAATTCACCTTTAGCAACTTCCATCAACAAATTTTATAAATTTCA 360
QY 396 ATCTGTGATCAACAAGAGCTTTGCCAATGGTTTCATCACTCTTGGCATTGGTTTAC 455
Db 361 ATCTGTGATCAACAAGAGCTTTGCCAATGGTTTCATCACTCTTGGCATTGGTTTAC 420
QY 456 CTGCCAGGTGTGATACAGCAATTTGCCAATCTTCAATATAGGAACCAAGTATAGAAATT 515
Db 421 CTGCCAGGTGTGATACAGCAATTTGCCAATCTTCAATATAGGAACCAAGTATAGAAATT 480
QY 516 CCACATTTGGTGAATAGTGAATGTTTAAACAAGAAAGAGTTGGGCTTCACTTCTT 575
Db 481 CCACATTTGGTGAATAGTGAATGTTTAAACAAGAAAGAGTTGGGCTTCACTTCTT 540
QY 576 TTTGCTGTACTGTCATCAATTTATAGTCTGTCTTACCCAATGAGGCGATCTTACAGATAC 635
Db 541 TTTGCTGTACTGTCATCAATTTATAGTCTGTCTTACCCAATGAGGCGATCTTACAGATAC 600
QY 636 AAGTGTCTAACTGGGCAATTCACAGGTCACCAAAATTAAGAAAGATGCTTGGATTGAG 695
Db 601 AAGTGTCTAACTGGGCAATTCACAGGTCACCAAAATTAAGAAAGATGCTTGGATTGAG 660
QY 696 CATGATGTTTGGGAATGAGATTTATGTCTCTGGGAATTTGGGATTTGGCAATCTG 755
Db 661 CATGATGTTTGGGAATGAGATTTATGTCTCTGGGAATTTGGGATTTGGCAATCTG 720
QY 756 GCTCTGTGAGCTGTGACATCTATTCATCTGTGAGTACTCTTTGAATGAGAGAAATT 815
Db 721 GCTCTGTGAGCTGTGACATCTATTCATCTGTGAGTACTCTTTGAATGAGAGAAATT 780
QY 816 CACTAATTCAGAGCAAGCTAGGAATTTTCCCTTCTACTGGGCAATTAACGCGATTG 875
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QY 876 ATTTTGTCTGAGATAGTGAATAGATATTAACAATTTGTATGATATCACTTCAACT 935
Db 841 ATTTTGTCTGAGATAGTGAATAGATATTAACAATTTGTATGATATCACTTCAACT 900
QY 936 TTTATGATAGCTGTTTCTTCCAAATTTGTTCTGATATTTAAAGCATATTAATCTG 995
Db 901 TTTATGATAGCTGTTTCTTCCAAATTTGTTCTGATATTTAAAGCATATTAATCTG 960
QY 996 CCATGCTTGAAGAAAGATATCGAAGATTAAGCATGTTGGGAACAAGTCAACCAAAATT 1055
Db 961 CCATGCTTGAAGAAAGATATCGAAGATTAAGCATGTTGGGAACAAGTCAACCAAAATT 1020
QY 1056 AACAAACTGAGATATGTTCCAGTTGTAG 1085
Db 1021 AACAAACTGAGATATGTTCCAGTTGTAG 1050

RESULT 2
AY403219 1045 bp DNA linear GSS 15-DEC-2003
LOCUS
DEFINITION
genomic survey sequence.
ACCESSION
AY403219
VERSION
AY403219.1 GI:39759202
KEYWORDS
GSS.
SOURCE
ORGANISM
Pan troglodytes (chimpanzee)
Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Pan.
REFERENCE
1 (bases 1 to 1045)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civeallo,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sniensky,J.D.,
Adams,M.D. and Cargill,M.
Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL
Science 302 (5652), 1960-1963 (2003)
PUBMED
14671302
AUTHORS
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civeallo,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sniensky,J.D.,
Adams,M.D. and Cargill,M.
DIRECT SUBMISSION
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT
This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source
1..1045
Location/Qualifiers
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
<1..>1045
/gene="STAP"
/locus_tag="HCM1484"
ORIGIN
Query Match 78.0%; Score 931.6; DB 10; Length 1045;
Best Local Similarity 89.4%; Pred. No. 2.7e-205;
Matches 934; Conservative 0; Mismatches 111; Indels 0; Gaps 0;
QY 41 GAAGCCATPCTATTTTATGAAATTAATGAAAGCAAGAAAGCATCACAAACCAAGAGA 100
Db 1 GAAGCCATPCTATTTTATGAAATTAATGAAAGCAAGAAAGCATCACAAACCAAGAGA 60
QY 101 ACTTTGSAAGATGAGACCTAGAGAAATTTAGAAAGACGATTAATTTGCATTAAGAGAC 160
Db 61 AATTGGANN 120
QY 161 GGGAGAGACAGCATGCTTAAAGAAAGCTGTGCTTTTGGATTGGACCAAGAGCCATGC 220
Db 121 GGGAGAGACAGCATGCTTAAAGAAAGCTGTGCTTTTGGATTGGACCAAGAGCCATGC 180
QY 221 TGATGAATTTGACTGCGCTTCAAGCTTCAAGACACAGGAACCTTTCCAGATGGCA 280
Db 181 TGATGAATTTGACTGCGCTTCAAGCTTCAAGACACAGGAACCTTTCCAGATGGCA 240
QY 281 CTTCGCAATTAATAATAGCTGCTATTAATAGCATCTGTGACTTTTCTTACACTCTTGAG 340
Db 241 CTTCGCAATTAATAATAGCTGCTATTAATAGCATCTGTGACTTTTCTTACACTCTTGAG 300
QY 341 GGAAGTAATTCACCTTTAGCAACTTCCATCAACAATATTTTATAAATTTCAATCTCT 400
Db 301 GGAAGTAATTCACCTTTAGCAACTTCCATCAACAATATTTTATAAATTTCAATCTCT 360
QY 401 GGTATCAACAAGCTTGGCAATGTTTCCATCACTCTCTTGGATTTGTTTACTGCGC 460

Db 361 GGTATCAACAAGTCTTGCCAAATGATTTCATCACTCTTGGCATTGGTTTACCTGCC 420
 Oy AGGTGTGATAGCAGCAATTGTCCAACTTCATATAAGAAACCAAGTAAGATTTCACA 520
 Db 461 AGGTGTGATAGCAGCAATTGTCCAACTTCATATAAGAAACCAAGTAAGATTTCACA 480
 Oy 521 TTGGTTGATTAAGTGAATGTTAAACAAGAAAGAGTGGGCTTCTCAGTTCTTTTTCG 580
 Db 481 TTGGTTGATTAAGTGAATGTTAAACAAGAAAGAGTGGGCTTCTCAGTTCTTTTTCG 540
 Oy 561 TGTACTGATGCAATTTATAGTCTGTCTTACCCAAATGAGCGCATCTTACAGATACAGTT 640
 Db 541 TGTACTGATGCAATTTATAGTCTGTCTTACCCAAATGAGCGCATCTTACAGATACAGTT 600
 Oy 641 GCTAAATCGGGCATTCACAGGTCACCAAAATTAAGAAAGTGCCTGATGAGCAATGAGCA 700
 Db 601 GCTAAATCGGGCATTCACAGGTCACCAAAATTAAGAAAGTGCCTGATGAGCAATGAGCA 660
 Oy 701 TGTGTGAGAAATGAGATTTATGTCCTCTGCGAAATGTCGAAATTCGCAATCTGCTCT 760
 Db 661 CGTTTGGAGAAATGAGATTTATGTCCTCTGCGAAATGTCGAAATTCGCAATCTGCTCT 720
 Oy 761 GTTGCTGTGACATCTATTCATCTGTGAGTGACCTTTGACATGAGAAATTCACATA 820
 Db 721 GTTGCTGTGAGAAATTTGTTTCCCTCTCTACCTGCGCAATATACAGCATTTGATTT 880
 Oy 821 TATTCAGAGCAAGCTAGGAAATTTGTTTCCCTCTCTACCTGCGCAATATACAGCATTTG 840
 Db 781 NNN 840
 Oy 881 TGCCGTGAATTAAGTGAATGATATATAAAACAATTTGATATGATATACCTCCCACTTTAT 940
 Db 841 TGCCGTGAATTAAGTGAATGATATATAAAACAATTTGATATGATATACCTCCCACTTTAT 900
 Oy 941 GATAGCTGTTTCTCTCCAAATTTGTTGCTGATATTTAAAGCATATCTTCTGCGCATG 1000
 Db 901 GATAGCTGTTTCTCTCCAAATTTGTTGCTGATATTTAAAGCATATCTTCTGCGCATG 960
 Oy 1001 CTTAGAGAAAGAACTAGCAAGATGATGATGATGATGATGATGATGATGATGATGATG 1060
 Db 961 CTTAGAGAAAGAACTAGCAAGATGATGATGATGATGATGATGATGATGATGATGATG 1020
 Oy 1061 AACTGAGATATGTTCCCACTTTGTTGCTGATATTTAAAGCATATCTTCTGCGCATG 1085
 Db 1021 AACTGAGATATCTTCCCACTTTGTTGCTGATATTTAAAGCATATCTTCTGCGCATG 1045

 RESULT 3
 CA488012 884 bp mRNA linear EST 14-NOV-2002
 LOCUS AGENCOURT_10807821 MAPL Homo sapiens cDNA clone IMAGE:6719746 5',
 DEFINITION mRNA sequence.
 ACCESSION CA488012
 VERSION CA488012.1 GI:24948800
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 884)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-ideall.nih.gov
 Tissue Procurement: Kristi A. Eglund, Ira Pastan
 cDNA Library Preparation: Invitrogen Corp
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNLN at:
 http://image.llnl.gov

Plate: L14M14278 row: C column: 10
 High quality sequence stop: 758.
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 /clone="IMAGE:6719746"
 /cell_line="ZR-75-1, MCF7, SK-BR-3, MDA-MB-231,
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 /clone_id="MAPL"
 /note="Vector: PCMV-SPORT6, site 1: EcoRV, site 2: Not I;
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 directionally cloned, priming method: oligo-dT. Average
 insert size: 1800 bp. Library amplification: 26,000 fold.
 Kristi A. Eglund, James J. Vincent, Robert Strausberg,
 Bungkook Lee & Ira Pastan. Discovery of new breast
 cancer genes encoding membrane and secreted proteins.
 Manuscript submitted."

ORIGIN
 Query Match 70.4%; Score 841; DB 6; Length 884;
 Best Local Similarity 99.4%; Pred. No. 2.9e-184;
 Matches 844; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1 CCGAGCTCACCGCTCAAGCTTAAGGCGAAGTGGGTGGCTGAAGCCATCTATTATTAG 60
 17 CCGAGCTCACCGCTCAAGCTTAAGGCGAAGTGGGTGGCTGAAGCCATCTATTATTAG 76
 61 AATTATGGAAGGAGAAAAGACATCAACAACCAAGAACTTTGGAAAATGAAGCTTA 120
 77 AATTATGGAAGGAGAAAAGACATCAACAACCAAGAACTTTGGAAAATGAAGCTTA 136
 121 GGAGAAATTTGAAGAAGCATATTATTGCAATTAAGACAGGGAAGACACGATGCTTA 180
 137 GGAGAAATTTGAAGAAGCATATTATTGCAATTAAGACAGGGAAGACACGATGCTTA 196
 181 AAAGACCTGGCTTTTGCATTTGACCAACAGCCCATGCGATGAAATTTGACCTGCTT 240
 197 AAAGACCTGGCTTTTGCATTTGACCAACAGCCCATGCGATGAAATTTGACCTGCTT 256
 241 CAGAACTTCAGACACACAGAACTCTTCCACAGTGGCACTTGCATTTAAATAGCTG 300
 257 CAGAACTTCAGACACACAGAACTCTTCCACAGTGGCACTTGCATTTAAATAGCTG 316
 301 CTATTATGACATCTGACCTTTCTTACACTCTTCTGAGGAGATTAATCCCTTTAG 360
 317 CTATTATGACATCTGACCTTTCTTACACTCTTCTGAGGAGATTAATCCCTTTAG 376
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 377 CAATCTCCCATCAACATATTTTATTAATTCGAATCTGTCATCAACAAAGTCTGC 436
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 437 CAATCTCCCATCACTCTCTGCGATTTGATTAAGTTCAGAGTGTATAGCAACAAATG 496
 481 TCCAACTTCATATGAGCAACAGATTAAGATTTCCAACTTGGTGAATAGTGT 540
 497 TCCAACTTCATATGAGCAACAGATTAAGATTTCCAACTTGGTGAATAGTGT 556
 541 TAAACAAGAAAGCTTTGGGCTTCTGATTTCTTTTGTGCTGATGCAATTAATA 600
 557 TAAACAAGAAAGCTTTGGGCTTCTGATTTCTTTTGTGCTGATGCAATTAATA 616
 601 GTCTGTCTTACCAATGAGCGATCTTACAGATTAAGTGTCTTAACTGGGCAATATCAAC 660
 617 GTCTGTCTTACCAATGAGCGATCTTACAGATTAAGTGTCTTAACTGGGCAATATCAAC 676
 661 AGGTCCAAACAATTAAGAAGATGCTGATTTGAGATTAAGTGTGAGATTAAGATTT 720
 677 AGGTCCAAACAATTAAGAAGATGCTGATTTGAGATTAAGTGTGAGATTAAGATTT 736

QY	721	ATGATCTCTGGGAATTGGGAATTGGCAATTCAGCTCTGTGGCTGTGCATCATATATC	780		
Db	737	ATGATCTCTGGGAATTGGGAATTGGCAATTCAGCTCTGTGGCTGTGCATCATATATC	796		
QY	781	CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTTAGAGCAAGTAGGAA	840		
Db	797	CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTTAGAGCAAGTAGGAA	856		
QY	841	TTGTTTCCC	849		
Db	857	ATTGTTTCC	865		
RESULT 4	AK010437	1211 bp	mRNA	linear	HTC 03-APR-2004
LOCUS	AK010437				
DEFINITION	Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:2410007B19 product:six transmembrane epithelial antigen of the prostate, full insert sequence.				
ACCESSION	AK010437	GI:12845880			
VERSION	AK010437.1	GI:12845880			
KEYWORDS	HTC; CAP trapper.				
SOURCE	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
	Eumetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
REFERENCE	Carninci, P. and Hayashizaki, Y.				
AUTHORS	High-efficiency full-length cDNA cloning				
JOURNAL	Meth. Enzymol. 303, 19-44 (1999)				
PUBMED	10349636				
REFERENCE	2				
AUTHORS	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.				
TITLE	Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes				
JOURNAL	Genome Res. 10 (10), 1617-1630 (2000)				
PUBMED	11042159				
REFERENCE	3				
AUTHORS	Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitenuma, T., Tashiro, H., Itoh, M., Suni, N., Ishii, Y., Nakamura, S., Hazama, M., Nishino, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujimake, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watabiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.				
TITLE	RIKEN integrated sequence analysis (RISA) system--384-format				
JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)				
PUBMED	11076661				
REFERENCE	4				
AUTHORS	The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.				
TITLE	Functional annotation of a full-length mouse cDNA collection				
JOURNAL	Nature 409, 685-690 (2001)				
PUBMED	5				
REFERENCE	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.				
AUTHORS	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs				
TITLE	Nature 420, 563-573 (2002)				
JOURNAL	6 (bases 1 to 1211)				
PUBMED	Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanganaki, T., Hara, A., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Izawa, M., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Nishi, K., Nomura, K., Numasaki, R., Ohno, M., Okazaki, Y., Okido, T., Owa, C., Saito, H., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shibata, Y., Shingae, A., Shiraki, T., Sogabe, Y.,				

TITLE
JOURNAL

Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Tanaka, T., Tejima, Y., Toya, T., Yamamura, T., Yasunishi, A., Yoshida, K., Yoshino, M., Mizumatsu, M., and Hayashizaki, Y.
Direct Submission
Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration and Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suenho-cho, Tsukuba-shi, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.jp, URL: http://genome.gsc.riken.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)
Please visit our web site (<http://genome.gsc.riken.jp/>) for further details.

COMMENT
cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer [5'-GAGAGAAGAGATCCCAAGACCTCTTTTCTTTTTTTTNN 3']. cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5'-GAGAGAAGATTCTCGAGTTAATTAAATTAATCCCCCCCCC 3']. cDNA was cleaved with XhoI and SacI. Cloning sites, 5' end: XhoI, 3' end: SacI.
Host: SOLR.

FEATURES
source

Location/Qualifiers
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/cell_type="ES cells"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
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polyA_site
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ORIGIN

Query Match 67.4%; Score 806; DB 4; Length 1211;
Best Local Similarity 81.0%; Pred. No. 4e-176;
Matches 952; Conservative 0; Mismatches 220; Indels 4; Gaps 1;

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Db 35 GCgcctgcccgtggcgcccaacgaagaagccggstgctgaagccgtaactatattttatngca 94
Dy 63 TTAAATGGAAGCAAGAAAAGACATCACAAACCAAGAACTTTGAAAAATGAAGCTTAG 122
Db 95 GTCATGAGAGATCAGTGCATGTATTAACAACCCAGAACACTTTGGAAAAATGAAGCCAAG 154
Dy 123 AGAAATTTAAGAGACATTAATTTGCAATTAAGACACGGGAGAGACCAAGATGCTTAAA 182
Db 155 GGAACCTGGAAGATGACAGTACTGCACTTAAGGACTCGGAGAGAGACAGACTGCTGAA 214
Dy 183 AGACCTGTGCTTTGGATTTGACCAAACAGGCCATGCTGATGAATTTGACTGCCCTTCA 242


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Db      215 AGACCGGGCTCTGGCACTTCGACACGCGGTCCACGTCGATGCTTTCGATGCGCCCTCC 274
Qy      243 GAATCTTGACACACAGCAAGAACTCTTTCACAGTGGCACTTGCAATTAATAATGCTGCT 302
Db      275 GAGCTTGACGACAGCGAGAAATCTTTCACAACTGGCGCTTGCCAGTGAAGTGCTGCCC 334
Qy      303 ATTATGACATCTGCACTTTCCTTTCACACTCTTGAAGGAAGTAATTCACCTTTAGCA 362
Db      335 ATCATATCATCTTCGACTTCTCTGACACTTTCGAGGGAATCATCTACCTGTTAGTA 394
Qy      363 ACTTCCATCAACAATATTTTATTAATTCGATCTGTCATCAACAAGTCTTGCA 422
Db      395 ACTTCCCGTGAACATATTTTATTAATTCGATCTGTCATCAACAAGTCTTGCA 454
Qy      423 ATGTTTCCATCACTCTCTGGGAGTATGTTACCTGCGAGGTGATGAGCAAGTAATGTC 482
Db      455 ATGATGCCCATTCCTCTTGGCACTGCTCTATTTGCGAGAGTTAGCGGCGTTGTA 514
Qy      483 CAATCTATATGAGCAACAGATATAGAAAGTTTCACATTTGATGATTAAGTATGTA 542
Db      515 CAGCTTGCAATGGAACCAAGTACAGAAAGTTCCACCTGTTAGATGATGATGATG 574
Qy      543 ACAAGAAAGAGTTGGGCTTCTCAAGTTCTTTTCTGCTGATGCAATGCAATTAAGT 602
Db      575 GCCAAGAAAGAGTTGGTCTCTCAGCTCTTTTCTGCTGTCACGCGTGTATACAGT 634
Qy      603 CTGCTTACCAATGAGGAGTCTTACAGATACAGTAAGTTGTAATCTGGGATACCAAG 662
Db      635 CTCTCATACCAATGAGAGATCTTACAGATACAGTACTCAATGCGCTTACCAACAG 694
Qy      663 GTCCAAACAAATTAAGAGATGCTGATGAGCATGATTTGAGAGATGAGATTTAT 722
Db      695 GTTCAACAAACAAAGAGATGCTGATGAGCATGATTTGAGAGATGAGATTTAT 754
Qy      723 GTGCTCTGGAAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTCATCTATTCCA 782
Db      755 GTGCTCTGGGAAATTTGGGAGTGGGCTGCGCATCTGCTCTCTGCTGTCATCTATTCCA 814
Qy      783 TCTGTGAGTGAATCTTTGACATGAGAGAAATTCACATATTCAGAGCAAGCTTAGAAT 842
Db      815 TCTGTGAGTGAATCTTTGACATGAGAGAAATTCACATATTCAGAGCAAGCTTAGAAT 874
Qy      843 GTTTCCTCTTACTGGGCAACATACAGCATGATTTTTCCTGGAATAGATGATAGAT 902
Db      875 GTCTCTCTTCTTCTGGGCAACATACAGCATGATTTTTCCTGGAATAGATGATAGAT 934
Qy      903 ATTAACAAATTTGATGATACACCTCAACTTTTATGATGATGATGATGATGATGAT 962
Db      935 GTCAATCAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 994
Qy      963 GTTGTCTGATATTTAAAGCATATTCCTGCGCATGCTTGAAGAAAGATGATGATG 1022
Db      995 CTGTCTCTGATATTTAAAGCATATTCCTGCGCATGCTTGAAGAAAGATGATGATG 1054
Qy      1023 ATTAGACATGTTGGGAGAGAGTCAACAAATTAACAAACTGAGATATGTTCCAGTTG 1082
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Qy      1083 TAGAATTAATCTGTTTACACATTTTGTCAATATGATATATTTATCAACAACTTC 1142
Db      1115 TAGAATTAATCTGTTTACACATTTTGTCAATATGATATATTTATCAACAACTTC 1170
Qy      1143 AAGTTGATTTGTTTAAATAATGATATTCAGAG 1178
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RESULT 5
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 LOCUS Mus musculus STEAP gene, VIRUAL TRANSCRIPT, partial sequence.
 DEFINITION genomic survey sequence.

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ACCESSION AY403220
VERSION AY403220.1 GI:39759203
KEYWORDS GSS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 1050)
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE 2 (bases 1 to 1050)
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Direct Submision
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
source location/Qualifiers
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/organism="Mus musculus"
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ORIGIN

Query Match 64.0%; Score 765.2; DB 10; Length 1050;

Best Local Similarity 83.0%; Pred. No. 1,1e-166;

Matches 872; Conservative 0; Mismatches 178; Indels 0; Gaps 0;

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Qy      36 TGGCTGAACCACTACTATTATTTATAGAAATTAAGAAAGCAAGAAACATCAACAA 95
Db      1 TGGCTGAACCACTACTATTATTTATAGAGATGATGATGATGATGATGATGATGAT 60
Qy      96 GAAAGACTTTGGAATTAAGAGCTTACAGAGAAATTTAGAAAGAGCATTTATTTGCTA 155
Db      61 GAAACAACTTTGGAATTAAGAGCTTACAGAGAAATTTAGAAAGAGCATTTATTTG 120
Qy      156 GACACGGAGAGACACGATGCTAAAGAAAGCTGCTTTTTCATTTGGACCAACAGCC 215
Db      121 GACTGGGAGAGACAGCATGCTGAAAGAAAGCTGGGCTCTCGCACTTGCAGACGCG 180
Qy      216 CATGCTGATGAATTTGACTGCTCCCTTCAGAACTTCAGACACACAGAACTTTTCAC 275
Db      181 CAGCTGATGATGCTTTGACTGCTCCCTTCAGAGCTTCAGACACAGAAATTTTCCA 240
Qy      276 TGGCACTTGCCAAATTAATTAAGTCTATATAGATCTTCACTTTCTTACACTCT 335
Db      241 TGGCGCTTGCCAAATTAATTAAGTCTATATAGATCTTCACTTTCTTACACTCT 300
Qy      336 CTGAGGAAAGTAATCACCTTTAGCAACCTTCCATCAACATATTTTATTAATAATTC 395
Db      301 CTGAGGAAATATCTACCTTTAGTAATCTTCCGTGAACATATTTTATTAATAATTC 360
Qy      396 ATCTGCTGATCAACAAAGCTTGGCAATGTTTTCATCACTCTCTTGGCATGTTTAC 455
Db      361 ATCTGCTGATTAACAAAGCTTGGCAATGTTTTCATCACTCTCTTGGCATGTTTAC 420
Qy      456 CTGCGAGTGTGATGACGCAATTTGCAATCTTCAATATGAAACCAAGTATTAAGA 515
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Oy	516	CCACATTTGTTGGATTAAGTGGATGATGTTAAACAAGAAAGCACTTTGGGCTTCTCAGTTCTT	575
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Oy	576	TTTGCCTGACTGCATGACATTTTATATAGTCTGTCTTAAACCAATGAGGCGATCTCTACAGATAC	635
Db	541	TTTGTCTGTCTGCACGCTGTTTTACAGTCTCTCATACCAATGAAGAGATCTCTACAGATAC	600
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Oy	816	CACATATATTCAGAGCAAGCTAGAGAAATTTGTTTCCCTTTCTATCTGGGCAACAATACAGCATG	875
Db	781	CACATATATTCAGAGCAAACTAGAGAAATTTCTCTCTTCTTCTGGGGCAACGATACAGCTTGG	840
Oy	876	ATTTTGGCTGGAAATPAAGGATAGATATPAAACAAATTTGATGGTATPACACTTCAACT	935
Db	841	GTTTTTGGCTGGAAATPAATGGGTAGATGTCACTCAATTTGTATGTATCACTGCTCCGACT	900
Oy	936	TTTATGATAGCTGTTTTCTTCCATTTGTTGTCCTGATATTTAAAGCATATCTATTCCTG	995
Db	901	TTTATGATAGCTGTTTTCTTCCATCTCTTGCTCGATATGAAAAATCGCCCTGTGGCTG	960
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Oy	1056	AACAAACATGAGATATGTTCCCAAGTTTGA	1085
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RESULT	6	
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DEFINITION	CA446381 720 bp mRNA linear EST 08-NOV-2002	
ACCESSION	U1-H-ED1-axr-o-23-0-UI g1 NCI CGAP ED1 Homo sapiens cDNA clone	
VERSION	U1-H-ED1-axr-o-23-0-UI 3', mRNA sequence.	
KEYWORDS	CA446381	
SOURCE	CA446381.1 GI:24810801	
ORGANISM	EST.	
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	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;	
	Hominidae; Homo.	
REFERENCE	1 (bases 1 to 720)	
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .	
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),	
JOURNAL	Tumor Gene Index	
COMMENT	Unpublished (1997)	
	Contact: Robert Strausberg, Ph.D.	
	Email: cgapbs-r@mail.nih.gov	
	Tissue Procurement: Dr. Jose Mercuende	
	cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa	
	DNA Sequencing by: Dr. M. Bento Soares, University of Iowa	
	Clone Distribution: Clone distribution information can be obtained	
	from Dr. M. Bento Soares, bento-soares@iowa.edu	
	Seq primer: M13 FORWARD	
	PolyA=yes.	
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660	GATGTTAAACAAGAAAGACGTTGGGGCTTCACAGTTCTTTTGGCTGCTAGTCAGATGCAAT	601
596	TTATAGTGTGCTTACCAATGAGGCGATCCTACAGATACAAAGTTGCTAAACCTGGGATA	655
600	TTATAGTGTGCTTACCAATGAGGCGATCCTACAGATACAAAGTTGCTAAACCTGGGATA	541
656	TCAAAGGTCACAAATAAAGAGATGCTGAGTTGAGCATGATGTTGGAGATATGA	715
540	TCAAAGGTCACAAATAAAGAGATGCTGAGTTGAGCATGATGTTGGAGATATGA	481
716	GATTATATGTCTCTGGAAATTTGGGAAATTTGGCAATCTGGCTGTTGGCTGACATC	775
480	GATTATATGTCTCTGGAAATTTGGGAAATTTGGCAATCTGGCTGTTGGCTGACATC	421
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420	TATTCATCTGTGAGTGACCTTTTGACATGAGAGAAATTCACATATATTCAGACCAACT	361
836	AGGAATGTTCCCTCTTACTGAGGACAAATACAGCATTTGATTTTGGCTTGGATTAAGTG	895
360	AGGAATGTTCCCTCTTACTGAGGACAAATACAGCATTTGATTTTGGCTTGGATTAAGTG	301
936	GATATATTAATAAACAATTGTATGATATACACTCCAACTTTTATGATAGCTGTTTCCCT	955
300	GATATATTAATAAACAATTGTATGATATACACTCCAACTTTTATGATAGCTGTTTCCCT	241
956	TCCAAATGTTCTCGATATTTTAAAGCATATCTATCTGCGCATGCTTGAGAGAAAGAT	1015
240	TCCAAATGTTCTCGATATTTTAAAGCATATCTATCTGCGCATGCTTGAGAGAAAGAT	181
1016	ACTGAAGATTAAGACATGTTGGGAAAGCTGACCCAAAATTAAACAAAACCTGAGATATGTC	1075
180	ACTGAAGATTAAGACATGTTGGGAAAGCTGACCCAAAATTAAACAAAACCTGAGATATGTC	121
1076	CCAGTGTGAGAAATTAATCTGTTTAAACACATTTTGTGCAATTAATGATATTTTATTCACCA	1135
120	CCAGTGTGAGAAATTAATCTGTTTAAACACATTTTGTGCAATTAATGATATTTTATTCACCA	61

QY 1136 ACATTTCAGTTTGTATTGTTAATAAATGATTATTCAGAGAAAAA 1195
DB 60 ACATTTCAGTTTGTATTGTTAATAAATGATTATTCAGAGAAAAA 1
RESULT 7
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DEFINITION BG565247 881 bp mRNA linear EST 10-Apr-2001
60258291F1 NIH_MGC_76 Homo sapiens cDNA clone IMAGE:4710436 5',
mRNA sequence.
ACCESSION BG565247
VERSION BG565247.1 GI:13572900
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE NIH-MGC http://mgs.nci.nih.gov/.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapds-remail.nih.gov
Tissue Procurement: CLONTECH Laboratories, Inc.
CDNA Library Preparation: CLONTECH Laboratories, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.llnl.gov
Plate: LNCM1549 row: b column: 05
High quality sequence stop: 704.

FEATURES

source location/Qualifiers

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/note="Organ: liver; Vector: pDNR-LIB (Clontech); Site: 1:
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3' adaptors were used in cloning as follows: 5' adaptor
sequence: 5'-CAAGGCGCATTAATGCG-3' and 3' adaptor sequence:
5'-ATTCTAGAGCGCCAGCGCGCGACATG-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.85
kb (range 1.0-4.0 kb). 15/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 58.0%; Score 692.8; DB 2; Length 881;
Best Local Similarity 92.0%; Pred. No. 7.2e-150;
Matches 786; Conservative 0; Mismatches 62; Indels 6; Gaps 5;
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DB 1 GCACACAGAGAACTCTTTCACAGTGGACCTGCAATTAATAGCTGCTATTAGC 60
QY 311 ATCTGACCTTTCTTACACTCTTTCAGAGGAAGTAATTCACCTTTAGCACTTCCCA 370
DB 61 ATCTGACCTTTCTTACACTCTTTCAGAGGAAGTAATTCACCTTTAGCACTTCCCA 120
QY 371 TCACACATATTTTATTAATTCGAATCTGTCATCAACAAAGCTTGGCAAATGTTTC 430
DB 121 TCACACATATTTTATTAATTCGAATCTGTCATCAACAAAGCTTGGCAAATGTTTC 180
QY 431 CATCACTCTTGGCAATGGTTTACCTGCAAGGTGTAGAGCAATGTCCAATTTCA 490
DB 181 CATCACTCTTGGCAATGGTTTACCTGCAAGGTGTAGAGCAATGTCCAATTTCA 240

QY 491 TAATGACCAAGTATTAAGAGTTTCCACATGGTTGGATTAGATGTTAAACAGAA 550
DB 241 TAATGACCAAGTATTAAGAGTTTCCACATGGTTGGATTAGATGTTAAACAGAA 300
QY 551 GCAGTTGGGCTTCTCAGTTTCTTTTGGCTGTACTGCAATGCAATTAATAGCTGCTTA 610
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DB 361 CCCAATGAGCGGATCTCTACAGATACAGATGTTGCTAAACCTGGGCTATCAACAGTCCAA 420
QY 671 AATTAAGAAGATCCCTGATTTAGCATGATGTTTGGAGAAATGAGATTTATGTCTCT 730
DB 421 AATTAAGAAGATCCCTGATTTAGCATGATGTTTGGAGAAATGAGATTTATGTCTCT 480
QY 731 GGGAAATTTGGGATTTGGCAATACCTGCTCTGTTGGCTGTGACATCTAATTCATCTGTAG 790
DB 481 GGGAAATTTGGGATTTGG-ATACTGGCTCTGTTGGCTGTGACATCTAATTCATCTGTAG 539
QY 791 TGACTCTTTGACATGGAGAAATTTCACTATATTCAGACCAAGCTAGGAATGTTCCCT 850
DB 540 TGACTCTTTGACATGGAGAAATTTCACTATATTCAGACCAAGCTAGGAATGTTCCCT 599
QY 851 TCTACTGGGACACATACAGCATTTGTTTGCCTGGAATTAAGTG-ATAGATATAAA 908
DB 600 TCTACTGGGACACATACAGCATTTGTTTGCCTGGAATTAAGTGATAGATCAATAC 659
QY 909 CAATTGTATGTATACCTCCCACTTTATGATAGCTGTTTCTTCCAAATGTTGTC 968
DB 660 ACAATTGTATGTATACCTCCCACTTTATGATAGCTGTTTCTTCCAAATGTTGTC 719
QY 969 CTGATTTT-AAAGATCTATT--CCGCGCATGCTTGAGAAAGATAC- GAAGAT 1025
DB 720 CTGATTTTCAAACGATACATATCTGCGCATGCTTGAGAGAAATACAGAGAT 779
QY 1026 AGACATGTTGGGAGAGCTGCACCAAAATTAACAAACAGATATGTTCCAGTTGTAG 1085
DB 780 AGACATGTTGGGAGAGAGCTGCACCAAAATTAACAAACAGATATGTTCCAGAGAT 839
QY 1086 AATTAATCTGTTTACA 1099
DB 840 ACCTGGTTACCA 853

RESULT 8
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LOCUS 602718984F1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4858820 5',
mRNA sequence.
DEFINITION BG762026
ACCESSION BG762026.1 GI:14072679
VERSION BG762026.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE NIH-MGC http://mgs.nci.nih.gov/.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapds-remail.nih.gov
Tissue Procurement: ATCC/DC/DTP
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.llnl.gov
Plate: LNCM1713 row: b column: 21
High quality sequence stop: 750.

Instructions provided with the SuperScript Plasmid System (Invitrogen, cat. no. 18248-013). Briefly, 1mcg of poly(A)+ RNA was annealed at 67 degrees with 10mcg of NotI-tag-dT18 oligonucleotide (GCTGCTGGGCGCGC-T18). and reverse transcribed at 67 degrees with SuperScript II (Invitrogen) reverse transcriptase (Jiang et al., 2001). The 'tag' represents a tissue/stage-specific ten-base sequence identifier (http://genome.utoronto.ca/softwaresoftware.html) present in the oligonucleotide used to prime first-strand synthesis. Second strand synthesis was performed with T4 DNA polymerase in the presence of DNA ligase and Klenow H. After second strand synthesis, the double-stranded cDNAs were ligated to SalI adapters (Invitrogen-Life Technologies) and digested with NotI. The cDNAs were size selected by passage through cDNA size fractionation columns (Invitrogen-Life Technologies). The cDNAs derived from each developmental stage of a particular tissue were mixed on an equimolar basis and ligated directionally into the NotI and SalI sites of the pCMV-SPORT6 vector (Invitrogen). After ligation of the inserts, the plasmids were electroporated into DH105 bacteria. Preliminary library characterization: Randomly chosen clones from each library were analyzed by restriction digestion to determine average insert size (96 clones) and by sequencing (-4.96-well plates) to confirm library quality (e.g. the presence of short polyA+ tails, genomic DNA contamination (must be <1%), ribosomal RNA clones (must be <1%), etc.) and to provide a sequence database representing the predominant clones in each library. The clones were sequenced at the University of Missouri-Columbia DNA Core Facility. After production of the libraries, equal numbers of recombinants from each library were pooled to produce a single mixed library (mega-library) for more extensive sequencing. Bioinformatics work was performed by GK Springer's bioinformatics group in Computer Science at the University of Missouri-Columbia. Clone Requests: Requests for clones should be made to the Director of the University of Missouri DNA Core facility at: bovine@net.missouri.edu. Citations: Bonaldo MF, Lennon G, Soares MB. Normalization and Subtraction: Two approaches to facilitate gene discovery. Genome Res, 1996; 6:791-806. Jiang H, Bivens NJ, Ries JE, Whitworth KM, Green JA, Forrester LJ, Springer GK, Didion BA, Mathalagan N, Prather RS, Lucy MC (2001) Constructing cDNA libraries with fewer clones that contain long poly(da) tails. Biotechniques 31:38-42. Soares MB, MF Bonaldo, P Jelene, L Su, L Lawton, A Efstratiadis. 1994. Construction and characterization of a normalized cDNA library. Proc Natl Acad Sci, 91:9228-9232. TAG TISSUE=Conceptus-Corpus Luteum (mixed) TAG_SEQ=Not Found"

ORIGIN

Query Match 56.3%; Score 672.4; DB 8; Length 827;
Best Local Similarity 89.3%; Pred. No. 3.9e-145;
Matches 735; Conservative 0; Mismatches 87; Indels 1; Gaps 1;

QY 1 CCGAGACTCAGGCTCAAGCTTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATG 60
DB 5 CCGCACTTACGCTCAGGTCAAGCAAGAGCGGGTGGCTGAAGCCATCTATTATTATG 64
QY 61 AATT-AAATGAAGCGAAGAAAGCATCAACAACCAAGAAAGAACTTTGGAAAAGAGCCCT 119
DB 65 AATTAATGAGAGCGAGCAAGACATCAACAACCAAGAAAGAACTTTGGAAAAGAGCCCT 124
QY 120 AGGAGAAATTTAGAGAGAGCATTTATTTGATTAAGAGACCGGAGAGACCATGATCTTA 179
DB 125 AGGAGAAATTTAGAGAGAGCATTTATTTGATTAAGAGACCGGAGAGACCATGATCTTA 184
QY 180 AAAAGACCTGTGCTTTTGCATTTGACCAAAAGCCCATGCTGATGAATTTGACGCTCT 239

DB 185 AAAAGACATGTGCTTTTGCATTTGACCAAAAGCCCATTTGATGAATTTGATGCCCC 244
QY 240 TCAGACTTCAGACACACAGAGAACTCTTCCAGAGGCGACTTGGCAATTAATAATAGCT 299
DB 245 CCGAGACTTCAGAGCAAGAAAGCAAGAACTCTTCCAAAGTGGCGCTGGCAATTAATAATAGCC 304
QY 300 GCTATTATAGCATCTCTGACCTTTCTTTTCACTCTTTCTGAGGGAAGTAATTCACCTTTA 359
DB 305 GCTATTATGATCATCTCTGACCTTTCTTTCTCACTCTTTGAGGGAATTAATTCACCTTTT 364
QY 360 GCACTTCCCATCAACAATTTTATTAATAATTCCAATCTGTGTCATCAACAAGCTTGG 419
DB 365 GTGACTTCCCATCAACAAGTAATTTTAAATTTCAATCTGTGTCATCAACAAGCTTGG 424
QY 420 CCAATGTTTCCATCACTCTCTTGGCACTTGTGTTTACCTGCGAGGTGTAGAGCAATTT 479
DB 425 CCAATGTTTCCATCACTCTCTTGGCACTTGTGTTTATTTGCGAGGTGTAGAGCAATTT 484
QY 480 GTCCAACTTCATTAATGAAACCAAGTAAGAAAGTTTCCATTTGTTGATTAAGTGAATG 539
DB 485 GTGACACTTCATTAATGAACTAAGTAAGAAATTTCCGACATGTTGATGATGATG 544
QY 540 TTAACAAGAAAGCATTTGGGCTTCTCACTTTCTTTTGTGCTGATGATGATTAAT 599
DB 545 GTTAACAAGAAAGCATTTGGTCTTCTCACTTTCTTTTGTGCTGATGATGATTAAT 604
QY 600 AGTCTGCTTCAACCAATGAGGAGATCTCTACATTAAGTGTAACTGGGCAATTC 659
DB 605 AGTTTATCTTATCCATGAGGAGATCTCTACATTAAGTGTAACTGGGCAATTC 664
QY 660 CAGGTCCAAACAATTAAGAAAGTGCCTGATTTGAGCATGATTTGGAATGAGATTT 719
DB 665 CAGGTCCAAACAATTAAGAAAGTGCCTGATTTGAGCATGATTTGGAATGAGATTT 724
QY 720 TATGTCTCTGTGGAAATTTGGGATTTGCAATTCGCTCTGTGCTGTGATCTATT 779
DB 725 TATGTATCTGTGGAAATTTGGGATTTGCAATTCGCTCTGTGCTGTGATCTATT 784
QY 780 CCATCTGTGATGATCTCTTGAATGAGAGAAATTTCACTATA 822
DB 785 CCATCTGTGATGATCTCTTGAATGAGAGAAATTTCACTATA 827

RESULT 10
BE875216 710 bp mRNA linear EST 20-OCT-2000
LOCUS BE875216
DEFINITION 601488516F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:389030 5',
mRNA sequence.
ACCESSION BE875216
VERSION BE875216.1 GI:10323992
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.

REFERENCE 1 (bases 1 to 710)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLES National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-r@mail.nih.gov
Tissue Procurement: DCTD/DNP/Gazdar

cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov

Plate: L1M9674 row: p column: 03
High quality sequence scop: 701.

FEATURES
source
1. 710
Location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3890310"
/tissue_type="large cell carcinoma, undifferentiated"
/lab_host="DH10B (phage-resistant)"
/clone_1lb="NH WC_69"
/note="Organ: lung; Vector: pCMV-Sport6; Site_1: NotI;
site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.1 kb. Library constructed by life
technologies."

ORIGIN

Query Match 56.2%; Score 672; DB 2; Length 710;
Best Local Similarity 99.0%; Pred. No. 4.7e-145;
Matches 697; Conservative 0; Mismatches 5; Indels 2; Gaps 2;

QY 45 CCATCTATTTTATGAAATTAATGAAACAGAAAGACATCAAAACCAAGAAACT 104
DB 1 CCATCTATTTTATGAAATTAATGAAACAGAAAGACATCAAAACCAAGAAAC-T 59
QY 105 TGGAAATGAAAGCTTGAAGAAATTTAGAAAGACGATTTATTTGATTAAGACACGGGA 164
DB TGGAAATGAAAGCTTGAAGAAATTTAGAAAGACGATTTATTTGATTAAGACACGGGA 119
QY 165 GAGACGAGCATCTAAGAAAGACCTGCTTTTTCATTTGACCAACACCCATGCTGAT 224
DB GAGACGAGCATCTAAGAAAGACCTGCTTTTTCATTTGACCAACACCCATGCTGAT 179
QY 225 GAATTTGATGCTCTTCAAACTTTCGACACACAGGAACTCTTTCACAGTGGCACTTG 284
DB GAATTTGATGCTCTTCAAACTTTCGACACACAGGAACTCTTTCACAGTGGCACTTG 239
QY 285 CCAATTAATAGCTGCTTATAGCATCTGACCTTTCTTACACTCTTGAAGGAA 344
DB CCAATTAATAGCTGCTTATAGCATCTGACCTTTCTTACACTCTTGAAGGAA 299
QY 345 GTAATTCACCTTTAGCAACTTCCATCAACAAATATTTTATTAATTCATCTGCTG 404
DB GTAATTCACCTTTAGCAACTTCCATCAACAAATATTTTATTAATTCATCTGCTG 359
QY 405 ATCAACAAAGCTTGGCAATGCTTTCATCACTCTTGGCAATGCTTACCGCAGAT 464
DB ATCAACAAAGCTTGGCAATGCTTTCATCACTCTTGGCAATGCTTACCGCAGAT 419
QY 360 ATCAACAAAGCTTGGCAATGCTTTCATCACTCTTGGCAATGCTTACCGCAGAT 419
DB ATCAACAAAGCTTGGCAATGCTTTCATCACTCTTGGCAATGCTTACCGCAGAT 419
QY 465 GTGATGACGCAATTTGCAACTTCAATTAAGAACCAAGATTAAGAAATTTCCACTTG 524
DB GTGATGACGCAATTTGCAACTTCAATTAAGAACCAAGATTAAGAAATTTCCACTTG 479
QY 525 TTGATTAAGTGAATGTTAAACAAGAAAGAGTTTGGCTTCTCAGTTCTTTTGTCTGA 584
DB TTGATTAAGTGAATGTTAAACAAGAAAGAGTTTGGCTTCTCAGTTCTTTTGTCTGA 539
QY 585 CTGCATGCAATTTATAGTCTGCTTTCACCAATGAGGCGATCCATGATTAAGATTTGCTA 644
DB CTGCATGCAATTTATAGTCTGCTTTCACCAATGAGGCGATCCATGATTAAGATTTGCTA 599
QY 645 AACTGGGCAATTAACAAGGTCACAACAAATTAAGAAAGATGCTGATTAAGATTTGCTA 704
DB AACTGGGCAATTAACAAGGTCACAACAAATTAAGAAAGATGCTGATTAAGATTTGCTA 659
QY 705 TGGAGAAATGAGTGAATTTATGCTCTCTGGGAATTTGGGATTTG 747
DB TGGAGAAATGAGTGAATTTATGCTCTCTGGGAATTTGGGATTTG 703

RESULT 11
DN997716 697 bp mRNA linear EST 17-MAY-2005
LOCUS DN997716
DEFINITION TC115356 Human breast cancer tissue, large insert, pCMV expression
library Homo sapiens cDNA clone TC115356 5' similar to Homo sapiens
six transmembrane epithelial antigen of the prostate 1 (STEBP1),
mRNA sequence.

ACCESSION DN997716
VERSION DN997716.1 GI:66257543
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 697)
Birkett,C., Cho,J., Gau,Y., Hamer,R., Kelly,S., Kovacs,K., Liu,L.,
Liu,X., Porter,J., Sachs,A., Shu,Y., Sun,Z., Wong,J., Wu,M.,
Zhang,X., Jay,G. and He,M.
High throughput cloning of full-length human cDNAs directly from
cDNA libraries optimized for large and rare transcripts
Unpublished (2005)
Contact: Kovacs, Kf
High Throughput cDNA Cloning
Origene Technologies, Inc. (www.origene.com)
6 Taft Court, Suite 100, Rockville, MD 20850, USA
Tel: 301 340 3188
Fax: 301 340 8606
Email: cDNA@origene.com
This EST submission is part of an on-going human full-length
cloning project at Origene Technologies, Inc.
Please contact Origene for access.
Origene Technologies, Inc.
6 Taft Ct. Suite 100
Rockville, MD 20850
Tel: (301) 340-3188
http://www.origene.com
Seq primer: pCMV6 prime forward vector primer, Origene
Technologies Inc.

FEATURES

source

1..697
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="TC115356"
/tissue_type="Breast cancer"
/clone_1lb="Human Breast cancer tissue, large insert, pCMV
expression library"
/note="Organ: Mammary gland (cancer tissue); Vector:
pCMV6-XL5; Site 1: EcoRI; Site 2: XhoI/SalI compatible end
ligatio; Oligo-dT primed reverse transcription optimized
for large and GC rich mRNA transcripts, cDNA size
selection, optimized ligation for large inserts into
mammalian expression vector, random clones selected for
end sequence verification of full-length genes"

ORIGIN

Query Match 55.5%; Score 663; DB 8; Length 697;
Best Local Similarity 100.0%; Pred. No. 5.8e-143;
Matches 663; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGAGACTCAGGGTCAAGCTTAAGGGAAGTGGGCTGAAGCATATTTATAG 60
DB CCGAGACTCAGGGTCAAGCTTAAGGGAAGTGGGCTGAAGCATATTTATAG 94
QY 35 CCGAGACTCAGGGTCAAGCTTAAGGGAAGTGGGCTGAAGCATATTTATAG 94
DB CCGAGACTCAGGGTCAAGCTTAAGGGAAGTGGGCTGAAGCATATTTATAG 94
QY 61 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAAACTTTGAAATGAAGCTTA 120
DB AATTAATGAAAGCAGAAAGACATCAAAACCAAGAAACTTTGAAATGAAGCTTA 154
QY 121 GGAGAAATTTAGAAAGACATTTATTTGCAATTAAGACACGGGAGACCGCATGCTTA 180
DB GGAGAAATTTAGAAAGACATTTATTTGCAATTAAGACACGGGAGACCGCATGCTTA 214
QY 155 GGAGAAATTTAGAAAGACATTTATTTGCAATTAAGACACGGGAGACCGCATGCTTA 214
DB GGAGAAATTTAGAAAGACATTTATTTGCAATTAAGACACGGGAGACCGCATGCTTA 214
QY 181 AAAAGCTGCTGCTTTTTCATTTGCAACCAAGCCATGCTGATGAATTTGACTGCCCTT 240
DB AAAAGCTGCTGCTTTTTCATTTGCAACCAAGCCATGCTGATGAATTTGACTGCCCTT 274
QY 215 AAAAGCTGCTGCTTTTTCATTTGCAACCAAGCCATGCTGATGAATTTGACTGCCCTT 274
DB AAAAGCTGCTGCTTTTTCATTTGCAACCAAGCCATGCTGATGAATTTGACTGCCCTT 274
QY 241 CAGAACTTCAGACACACAGAACTCTTTCACAGTGGCACTTGGCAATTAATTAAGCTG 300
DB CAGAACTTCAGACACACAGAACTCTTTCACAGTGGCACTTGGCAATTAATTAAGCTG 334

QY 301 CTATTATGACATCTCTGACCTTTCTTACACTCTTCTGAGGAGTAATTCACCCCTTAG 360
 |||||
 Db 335 CTATTATGACATCTCTGACCTTTCTTACACTCTTCTGAGGAGTAATTCACCCCTTAG 394
 |||||
 QY 361 CAACCTCCCATCAACAATATTTTATTAATAATTCACATCTGTCATCAACAAGCTTTC 420
 |||||
 Db 395 CAACCTCCCATCAACAATATTTTATTAATAATTCACATCTGTCATCAACAAGCTTTC 454
 |||||
 QY 421 CAATGGTTTCATCACTCTCTTGGCATTTGTTTACCTCCAGTGTGATAGACCAATG 480
 |||||
 Db 455 CAATGGTTTCATCACTCTCTTGGCATTTGTTTACCTCCAGTGTGATAGACCAATG 514
 |||||
 QY 481 TCCAACTTCATATGAGCAACAAGTATAGAAGTTTCCACATTTGGTGAATAGTATG 540
 |||||
 Db 515 TCCAACTTCATATGAGCAACAAGTATAGAAGTTTCCACATTTGGTGAATAGTATG 574
 |||||
 Db 541 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTAATGCAATTTATA 600
 |||||
 Db 575 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTAATGCAATTTATA 634
 |||||
 QY 601 GTCTGTCTTACCAATGAGCGATCTAGATCAAGATGCTAACTGGGCATATCAAC 660
 |||||
 Db 635 GTCTGTCTTACCAATGAGCGATCTAGATCAAGATGCTAACTGGGCATATCAAC 694
 |||||
 QY 661 AGG 663
 |||||
 Db 695 AGG 697

RESULT 12

BU602279

LOCUS BU602279 773 bp mRNA linear EST 20-SEP-2002
 DEFINITION IMAGE:6496341 5', mRNA sequence.

ACCESSION

BU602279.1 GI:23254038

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens

Homo sapiens

Homo sapiens

Homo sapiens

Homo sapiens

Homo sapiens

Homo sapiens

Homo sapiens

Homo sapiens

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Homo sapiens

Homo sapiens

FEATURES

source

1. 773

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:6496341"

/tissue_type="mixed (pool of 40 RNAs)"

/lab_host="DH10B (71-phage-resistant)"

/clone_lib="NIH_MGC_142"

/note="Vector: pDNR-LIB; Site 1: SfiI (ggccatcaggcc); Site 2: SfiI (ggccgcgcggcc). Double-stranded cDNA was prepared from a pool of 40 cell line polyA+ RNAs (bladder 2%, blood - 33.4%, brain - 5.6%, breast - 12.5%, colon - 4%, connective tissue - 1.4%, eye - 1%, intestine - 2.6%, kidney - 2.2%, liver - 5.7%, lung - 10.8%, NK-cell - 5.2%,

High quality sequence stop: 604.
 Location/Qualifiers

1. 773

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:6496341"

/tissue_type="mixed (pool of 40 RNAs)"

/lab_host="DH10B (71-phage-resistant)"

/clone_lib="NIH_MGC_142"

/note="Vector: pDNR-LIB; Site 1: SfiI (ggccatcaggcc); Site 2: SfiI (ggccgcgcggcc). Double-stranded cDNA was prepared from a pool of 40 cell line polyA+ RNAs (bladder 2%, blood - 33.4%, brain - 5.6%, breast - 12.5%, colon - 4%, connective tissue - 1.4%, eye - 1%, intestine - 2.6%, kidney - 2.2%, liver - 5.7%, lung - 10.8%, NK-cell - 5.2%,

ORIGIN

Query Match 55.0%; Score 657.6; DB 5; Length 773;
 Best Local Similarity 99.1%; Pred. No. 1e-141;
 Matches 682; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

ovary - 4%, pharynx - 2.5%, prostate - 4.3%, salivary gland - 1.3%, and skin - 2.3%). 5' and 3' adaptors were used in cloning as follows:
 5'-AAGCAGTGTATCAACGACAGTGGCCATTACGCGCGG-3' and 5'-ATTCTAGAGGCGGAGCGCGGAGTGTGAGTGGTGAAGCATATTTATAG 139
 Creator SMART kit and size-selected to contain the >0.5 kb size fraction (other fractions present in NIH_MGC_141).
 Library created in the laboratory of M. Brownstein (NIH, NIH). Note: this is a NIH_MGC Library."

QY 1 CCGAGACTCAGGTCAAGCTAAGCGAAGAGTGGTGGCTGAAGCCATATTTATAG 60
 |||||
 Db 80 CCGAGACTCAGGTCAAGCTAAGCGAAGAGTGGTGGCTGAAGCCATATTTATAG 139
 |||||
 QY 61 AATTATGGAAGCAAGAAAGATCAAAACCAAGAAAGCTTGGAAATGAAGCTTA 120
 |||||
 Db 140 AATTATGGAAGCAAGAAAGATCAAAACCAAGAAAGCTTGGAAATGAAGCTTA 199
 |||||
 QY 121 GGAGAAATTTAGGAAGAGAGATTTATTTGATAGAGACAGGAGAGACAGCATGTAA 180
 |||||
 Db 200 GGAGAAATTTAGGAAGAGAGATTTATTTGATAGAGACAGGAGAGACAGCATGTAA 259
 |||||
 QY 181 AAGACCTGTGCTTTTGCATTTGCACCAACAGCCCATGCTGATGATTTGACTGCCCTT 240
 |||||
 Db 260 AAGACCTGTGCTTTTGCATTTGCACCAACAGCCCATGCTGATGATTTGACTGCCCTT 319
 |||||
 QY 241 CAGAACTTCAAGCAACAGAAAGCTTTTCCAGAGGAGACTTCCAAATTAATAGCTG 300
 |||||
 Db 320 CAGAACTTCAAGCAACAGAAAGCTTTTCCAGAGGAGACTTCCAAATTAATAGCTG 379
 |||||
 QY 301 CTATTATGACATCTCTGACCTTTCTTACACTCTTCTGAGGAGTAATTCACCCCTTAG 360
 |||||
 Db 380 CTATTATGACATCTCTGACCTTTCTTACACTCTTCTGAGGAGTAATTCACCCCTTAG 439
 |||||
 QY 361 CAACCTCCCATCAACAATATTTTATTAATAATTCACATCTGTCATCAACAAGCTTTC 420
 |||||
 Db 440 CAACCTCCCATCAACAATATTTTATTAATAATTCACATCTGTCATCAACAAGCTTTC 499
 |||||
 QY 421 CAATGGTTTCATCACTCTCTTGGCATTTGTTTACCTCCAGTGTGATAGACCAATG 480
 |||||
 Db 500 CAATGGTTTCATCACTCTCTTGGCATTTGTTTACCTCCAGTGTGATAGACCAATG 559
 |||||
 QY 481 TCCAACTTCATATGAGCAACAAGTATAGAAGTTTCCACATTTGGTGAATAGTATG 540
 |||||
 Db 560 TCCAACTTCATATGAGCAACAAGTATAGAAGTTTCCACATTTGGTGAATAGTATG 619
 |||||
 QY 541 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTAATGCAATTTATA 600
 |||||
 Db 620 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTAATGCAATTTATA 679
 |||||
 QY 601 GTCTGTCTTACCAATGAGCGATCTAGATCAAGATGCTAACTGGGCATATCAAC 660
 |||||
 Db 680 GTCTGTCTTACCAATGAGCGATCTAGATCAAGATGCTAACTGGGCATATCAAC 739
 |||||
 QY 660 CA-GGTCAACAATAATTAAGAAGATGCC 686
 |||||
 Db 740 CAGGGTCCCAACAATAATTAAGAAGATGCC 767
 |||||

RESULT 13

CX757709

LOCUS CX757709 742 bp mRNA linear EST 24-JAN-2005
 DEFINITION IMAGE:7772591 3', mRNA sequence.

ACCESSION

CX757709.1 GI:58054365

KEYWORDS

EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 742)
AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbs-remail.nih.gov
Tissue Procurement: Meri Firpo
cDNA Library Preparation: Express Genomics
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLM11516 row: h column: 13
High quality sequence start: 6
High quality sequence stop: 726.
Location/Qualifiers
1..742
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:7772991"
/tissue_type="pluripotent cell line derived from
blastocyst inner cell mass"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC_278"
/note="Organ: Blastocyst; Vector: pExpress-1; Site_1:
ECORV; Site_2: NotI; RNA obtained from pluripotent cell
line derived from blastocyst inner cell mass (cell line
HSF-1.14, NIH Registry designation UC01. Positive for OCT4
expression by rtPCR, positive for SSEA-3, SSEA-4,
Tra-1-81, Tra-1-60 by immunofluorescence. Negative for
SSEA-1 by immunofluorescence. Passage 35. This line is a
subclone of the parental line, the parental line was
subcloned to remove aneuploid cells). cDNA was primed
using oligo-dT primer:
5'-pGACTAGTCTAGATGCGAGCGCGGCC(7)25-3' and cloned into
the ECORV/NotI sites of pExpress-1. Size-selection >1.25
kb resulted in an average insert size of 1.9 kb. This
primary library is non-normalized (normalized primary
library is NIH MGC 279) and was constructed by Express
Genomics (Frederick, MD). Note: this is a Mammalian Gene
Collection library."

ORIGIN
Query Match 54.9%; Score 656.2; DB 8; Length 742;
Best Local Similarity 97.4%; Pred. No. 2.2e-141;
Matches 667; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

1 CGAGACTCAGCGTCAAGCTTAAGCGAAGTGGTGGCTGAAGCCATATTATTATG 60
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(gtagag); Oligo-dT primed using primer
5'-TTTTTTTTTTTTTNN-3', size-selected for average
insert size 2.5 kb and normalized to R0T 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NIH/NHRI, National Institutes of Health). Note: this
is a NIH_MGC Library."

ORIGIN

Query Match 54.8%; Score 655; DB 3; Length 783;
Best Local Similarity 99.0%; Pred. No. 4,2e-141;
Matches 680; Conservative 0; Mismatches 5; Indels 2; Gaps 2;

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DB 97 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGTGAAGCCATCTATTATTAG 156
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QY 121 GGAAGAAATTTAGAAAGAGATTTATTGATTAAGACACGGAGAGACCAAGCATGCTAA 180
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QY 181 AAGAGCTGTGCTTTTGATTTGCAACCAAGCCCATGCTGAATTTGACCTGCTT 240
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QY 241 CAGAACTTCAGACACAGAGAACTCTTTCAGAGTGGCAGCTTCCCAATTAATAGCTG 300
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QY 600 ACTCTGTCTTACCCATGAGGCGATCTACAGATACAGATGCTTAACT-GGGCATATCA 658
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DB 697 ACTCTGTCTTACCCATGAGGCGATCTACAGATACAGATGCTTAACTGGGGCATATCA 756
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QY 659 AAGGTCCCAACAAATTAAGAAAGATGC 685
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DB 757 CAGGTCCCAACAACTACCGAAGATGC 783
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RESULT 15

LOCUS CX753134 825 bp mRNA linear EST 24-JAN-2005
DEFINITION AGENCOURT 40991781 NIH_MGC 281 Homo sapiens cDNA clone
IMAGE:7780881 3', mRNA sequence.
ACCESSION CX753134
VERSION CX753134.1 GI:58049789
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
1 (bases 1 to 825)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgabs-remail.nih.gov
Tissue Procurement: Meri Firpo
cDNA Library Preparation: Express Genomics
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
<http://image.lnl.gov>
plate: LLM15937 row: a column: 07
High quality sequence stop: 538.
Location/Qualifiers

FEATURES

Source

1. 825
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:7780881"
/issue_type="pluripotent cell line derived from
blastocyst inner cell mass"
/lab_host="DH10B Tena"
/note="Organ: Blastocyst; Vector: pExpress-1; Site 1:
EcorV, Site 2: NotI; RNA obtained from pluripotent cell
line derived from blastocyst inner cell mass (cell line
HSF-6, NIH Registry designation UC06. Positive for OCT4
expression by RT-PCR, positive for SSEA-3, SSEA-4,
Tra-1-81, Tra-1-60 by immunofluorescence. Negative for
SSEA-1 by immunofluorescence Passage 62. cDNA was primed
using oligo-dT primer:
5'-pGACTGTTCTGATGCGAGCGGCGCCCTT25-3' and cloned into
the EcoRV/NotI sites of pExpress-1. Size-selection >1.25
kb resulted in an average insert size of 2.0 kb. This
primary library is normalized (non-normalized primary
library is NIH_MGC 280) and was constructed by Express
Genomics (Frederick, MD). Note: this is a Mammalian Gene
Collection library."

ORIGIN

Query Match 54.8%; Score 654.6; DB 8; Length 825;
Best Local Similarity 98.5%; Pred. No. 5,2e-141;
Matches 671; Conservative 0; Mismatches 9; Indels 1; Gaps 1;

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QY 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGTGAAGCCATCTATTATTAG 60
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DB 65 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGTGAAGCCATCTATTATTAG 124
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QY 61 AATTAATGGAAGCAGAAAAGACATCAACCAAGAAAGAACTTTGAAATGAGCCTA 120
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DB 125 AATTAATGGAAGCAGAAAAGACATCAACCAAGAAAGAACTTTGAAATGAGCCTA 184
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QY 121 GGAAGAAATTTAGAAAGAGATTTATTGATTAAGACACGGAGAGACCAAGCATGCTAA 180
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DB 185 GGAAGAAATTTAGAAAGAGATTTATTGATTAAGACACGGAGAGACCAAGCATGCTAA 244
    |||

QY 181 AAGAGCTGTGCTTTTGATTTGCAACCAAGCCCATGCTGAATTTGACTGCTT 240
    |||
DB 245 AAGAGCTGTGCTTTTGATTTGCAACCAAGCCCATGCTGAATTTGACTGCTT 304
    |||

QY 241 CAGAACTTCAGACACAGAGAACTCTTTCAGAGTGGCAGCTTCCCAATTAATAGCTG 300
    |||
DB 305 CAGAACTTCAGACACAGAGAACTCTTTCAGAGTGGCAGCTTCCCAATTAATAGCTG 364
    |||

QY 301 CTATTATAGCATCTCTGACTTTTCTTTTACCTCTTCTGAGGAAATTAATCACCCTTAG 360
    |||

```

```
Db 365 ||||| 424
    CTATTTATGCACTCTGTGACTTTCTTTACACTCTTGTAGGGAAGTAATTCACCCCTTAG
QY 361 ||||| 420
    CAACTTCCCATCAACAATATTTTATTAATAATTCCATCTGTGTCATCAACAAGCTTGC
Db 425 ||||| 484
    CAACTTCCCATCAACAATATTTTATTAATAATTCCATCTGTGTCATCAACAAGCTTGC
QY 421 ||||| 480
    CAATGCTTCCATCACTCTCTTGGCATGTTTACCTGCAAGTGTGATAGCAGCATTG
Db 485 ||||| 544
    CAATGCTTCCATCACTCTCTTGGCATGTTTACCTGCAAGTGTGATAGCAGCATTG
QY 481 ||||| 540
    TCCAACTTCATPATGGAACCAAGTATTAAGAAGTTTCCACATTGTTGGATPAAGTGAATGT
Db 545 ||||| 604
    TCCAACTTCATPATGGAACCAAGTATTAAGAAGTTTCCACATTGTTGGATPAAGTGAATGT
QY 541 ||||| 600
    TAACAAGAAAGCAGTTTGGGCTTCTCAAGTTTCTTTTGGCTGTACTGCATGCAATTATTA
Db 605 ||||| 664
    TAACAAGAAAGCAGTTTGGGCTTCTCAAGTTTCTTTTGGCTGTACTGCATGCAATTATTA
QY 601 ||||| 660
    GTCTGTCTTACCCCATGAGCGATCTCAGATACAGATACAGTTGCTAAAGTGGCATATCAAC
Db 665 ||||| 723
    GTCTGTCTTACCCCATGAGCGATCTCAGATACAGATACAGTTGCTAAAGTGGCATATCAAC
QY 661 ||||| 681
    AGGTCCAACAATAATAAGAG 681
Db 724 ||||| 744
    AGGTCCAACAATAATAAGAG 744
```

Search completed: December 5, 2005, 03:12:12
Job time : 5464.54 secs

CC the antibodies are also used in the detection of cancer in a patient. The
CC cancer that is diagnosed or treated is particularly prostate cancer. (I)
CC and (II) can be used in vaccines. The antibodies or (I) can be used for
CC monitoring the progression of cancer in a patient. (I) and (II) can also
CC be used to improve diagnosis and therapeutic methods for prostate
CC cancer. They can indicate the level of metastasis as well as the prostate
CC volume. AAH9357 to AAH9394 and AAH0115 to AAH0138 represent
CC polynucleotide and amino acid sequences used in the exemplification of
CC the present invention
XX

Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1195; DB 4; Length 1195;

Best Local Similarity 100.0%; Pred. No. 4, 4e-276; Mismatches 0; Indels 0; Gaps 0;

Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGAGCTCAGGCTAAGCTAAGCGGAGTGGTGGCTGAAGCCATATTTATATAG 60
DB 1 CCGAGCTCAGGCTAAGCTAAGCGGAGTGGTGGCTGAAGCCATATTTATATAG 60
QY 61 AATTAAATGGAAGCAGAAAAGACATCAAAACCAAGAGAACTTTGGAAAATGAGCCTA 120
DB 61 AATTAAATGGAAGCAGAAAAGACATCAAAACCAAGAGAACTTTGGAAAATGAGCCTA 120
QY 121 GGAAGAAATTTGAAGAAAGAGATTTATTTGATAGACACGGAGAGACCGACATGCTAA 180
DB 121 GGAAGAAATTTGAAGAAAGAGATTTATTTGATAGACACGGAGAGACCGACATGCTAA 180
QY 181 AAAGACCTGCTGCTTTGCAATTTGACCAAAACAGCCATGCTGATGAAATTTGACCTGCTT 240
DB 181 AAAGACCTGCTGCTTTGCAATTTGACCAAAACAGCCATGCTGATGAAATTTGACCTGCTT 240
QY 241 CAGAACTTGAAGCAGACAGAGAACTCTTTCCAGAGTGGCACTTCCAAATTTAAATAGCTG 300
DB 241 CAGAACTTGAAGCAGACAGAGAACTCTTTCCAGAGTGGCACTTCCAAATTTAAATAGCTG 300
QY 301 CATTATATGATCTCTGACTCTTTCTTTACCTCTTCTGAGGGAAGTAAATTCACCTTTAG 360
DB 301 CATTATATGATCTCTGACTCTTTCTTTACCTCTTCTGAGGGAAGTAAATTCACCTTTAG 360
QY 361 CAACCTCCCATCAACAAATATTTTATTAATTCGAATCCGAGTCATCAACAAAGCTGTCG 420
DB 361 CAACCTCCCATCAACAAATATTTTATTAATTCGAATCCGAGTCATCAACAAAGCTGTCG 420
QY 421 CAATGTTTCCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGATAGCAGCAATG 480
DB 421 CAATGTTTCCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGATAGCAGCAATG 480
QY 481 TCCAACTTATATGAGAAACCAATATTAAGAGTTTCCACTTTGGTGGATTAAGTGAATG 540
DB 481 TCCAACTTATATGAGAAACCAATATTAAGAGTTTCCACTTTGGTGGATTAAGTGAATG 540
QY 541 TAAACAAGAAAGAGTTGGGCTCTCAGTTTCTTTTGGCTGACTGCAATTTATTA 600
DB 541 TAAACAAGAAAGAGTTGGGCTCTCAGTTTCTTTTGGCTGACTGCAATTTATTA 600
QY 601 GTCTGCTTACCCCAATGAGCGCATCTACAGATACAAAGTTGCTAACTGGGCATATCAAC 660
DB 601 GTCTGCTTACCCCAATGAGCGCATCTACAGATACAAAGTTGCTAACTGGGCATATCAAC 660
QY 661 AGGTCCAAACAAATTAAGAAAGATGCTGATTAAGCATGATGTTTGGAGAAATGAGAAATTT 720
DB 661 AGGTCCAAACAAATTAAGAAAGATGCTGATTAAGCATGATGTTTGGAGAAATGAGAAATTT 720
QY 721 ATGTGCTCTGGGAAATTTGGGATTTGGCAATACCTGCTGTTGGCTGACATCTATTTC 780
DB 721 ATGTGCTCTGGGAAATTTGGGATTTGGCAATACCTGCTGTTGGCTGACATCTATTTC 780
QY 781 CATCTGTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAACCTAGGAA 840
DB 781 CATCTGTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAACCTAGGAA 840
QY 841 TTGTTTCCCTTCTACTGGGCAAAATACAGCATTTGATTTTGGCTGGAATTAAGTGAATG 900

DB 841 TTGTTTCCCTTCTACTGGGCAAAATACAGCAATTTGATTTTCCCTGGAATTAAGTGAATG 900
QY 901 AATTAATAAATTTGATGATATTAACCTCCCACTTTATGATGCTGTTTCTTCCAA 960
DB 901 AATTAATAAATTTGATGATATTAACCTCCCACTTTATGATGCTGTTTCTTCCAA 960
QY 961 TTGTTGCTGATATTTAAAGCATATTTCTGCTGCACTTTGAGGAAGAAATGATCTGA 1020
DB 961 TTGTTGCTGATATTTAAAGCATATTTCTGCTGCACTTTGAGGAAGAAATGATCTGA 1020
QY 1021 AGATTGACATGTTGGGAAAGCTCAACCAAAATTTAAACAACTGAGATATGTTCCCACT 1080
DB 1021 AGATTGACATGTTGGGAAAGCTCAACCAAAATTTAAACAACTGAGATATGTTCCCACT 1080
QY 1081 TGTAGAAATTTACTGTTTACACACATTTTGTTCATATTTGATATTTTATCACAACATTT 1140
DB 1141 TCAAGTTTGTATTTGTTAATAAATGATTTATTCAGGAAAAAATTTTAAAAA 1195
1141 TCAAGTTTGTATTTGTTAATAAATGATTTATTCAGGAAAAAATTTTAAAAA 1195

RESULT 2

AA564160
ID AA564160 standard; cDNA; 1195 BP.

XX AA564160;

XX 29-JUN-2002 (first entry)

XX Human prostate cDNA sequence #590.

XX Human; prostate cancer; ss; cyrostatic; immunostimulant; tumour.

XX Homo sapiens.

XX WO200173032-A2.

XX 04-OCT-2001.

XX 27-MAR-2001; 2001WO-US009919.

XX 27-MAR-2000; 2000US-00536857.

XX 09-MAY-2000; 2000US-00568100.

XX 12-MAY-2000; 2000US-00570737.

XX 13-JUN-2000; 2000US-00593793.

XX 27-JUN-2000; 2000US-00605783.

XX 09-AUG-2000; 2000US-00636215.

XX 29-AUG-2000; 2000US-00651236.

XX 06-SEP-2000; 2000US-00657279.

XX 02-OCT-2000; 2000US-00679426.

XX 10-OCT-2000; 2000US-00685166.

XX 09-NOV-2000; 2000US-00709729.

XX (CORI-) CORIXA CORP.

XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;

XX Fanger GR, Reltter MW, Stolk JA, Day CH, Vedvick TS, Carter D;

XX Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;

XX WPI; 2001-639232/73.

XX P-PSDB; AAU69927.

PT New human prostate-specific polypeptides and polynucleotides useful for

XX the diagnosis and treatment of cancer, especially prostate cancer.

XX Claim 1; Page 548; 579p; English.

XX The invention relates to isolated prostate-specific polynucleotides,

XX polypeptides, fusion proteins of the polypeptides, antibodies raised

XX against the polypeptides (or antigenic epitopes derived from them) and

CC antigen-presenting cells expressing the polypeptides. The antibodies are
 CC useful for detecting the presence of cancer, especially prostate cancer.
 CC The polypeptides, polynucleotides and the antigen-presenting cells are
 CC useful for stimulating and/or expanding T cells specific for a tumour
 CC protein, and for inhibiting the development of cancer especially prostate
 CC cancer. Compositions comprising the polynucleotide and/or polypeptide are
 CC useful for stimulating an immune response, and for treating cancer. The
 CC oligonucleotide is useful for detecting cancer. The present sequence is a
 CC prostate specific polynucleotide of the invention
 XX

Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1195; DB 4; Length 1195;
 Best Local Similarity 100.0%; Pred. No. 4,4e-276;

Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 CCGAGACTCAAGGCTGAGCTGAGGAGAGAGTGGGTGGCTGAAACCATCTATTATTATG 60
Db 1 CCGAGACTCAAGGCTGAGCTGAGGAGAGAGTGGGTGGCTGAAACCATCTATTATTATG 60
Qy 61 AATTAATGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
Db 61 AATTAATGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
Qy 121 GAGAGAAATTTAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
Db 121 GAGAGAAATTTAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
Qy 181 AAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Db 181 AAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Qy 241 CAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
Db 241 CAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
Qy 301 CTAATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Db 301 CTAATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Qy 361 CAACTTCCCATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Db 361 CAACTTCCCATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Qy 421 CAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db 421 CAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Qy 481 TCCCACTTCATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
Db 481 TCCCACTTCATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
Qy 541 TAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
Db 541 TAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
Qy 601 GTCGCTCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
Db 601 GTCGCTCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
Qy 661 AGGTCCAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Db 661 AGGTCCAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Qy 721 ATGTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
Db 721 ATGTGCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
Qy 781 CATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Db 781 CATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Qy 841 TTGTTTCCCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900

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Db 841 TTGTTTCCCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
Qy 901 AATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
Db 901 AATTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
Qy 961 TTGTTTCCCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
Db 961 TTGTTTCCCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
Qy 1021 AGATTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
Db 1021 AGATTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
Qy 1081 TGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
Db 1081 TGTAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
Qy 1141 TCAAGTTTGAATTTGTTAATTAATGATTTTCAAGAGAGAGAGAGAGAGAGAGAGAG 1195
Db 1141 TCAAGTTTGAATTTGTTAATTAATGATTTTCAAGAGAGAGAGAGAGAGAGAGAGAG 1195

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RESULT 3
 ACAS9968
 ID ACAS9968 standard; cDNA; 1195 BP.
 XX
 AC ACAS9968;
 XX
 DT 10-JUN-2003 (first entry)
 XX
 DE Prostate cancer therapy associated cDNA #655.
 XX
 KW Prostate cancer; vaccine; gene therapy; cytostatic; fusion protein;
 KW immunogen; cancer; prostate specific antigen; PSA;
 KW prostatic acid phosphatase; PAP; prostate specific membrane antigen;
 KW PMA; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN US2002192763-A1.
 XX
 PD 19-DEC-2002.
 XX
 PF 29-JUN-2001; 2001US-00895793.
 XX
 PR 04-OCT-1999; 99US-0157455P.
 PR 04-OCT-2000; 2000US-00679272.
 PR 28-MAR-2001; 2001US-00822827.
 XX
 PA (XUJ/) XU J.
 PA (DILL/) DILLON D. C.
 PA (MITC/) MITCHAM J. L.
 PA (HARL/) HARLOCKER S. L.
 PA (JIANG/) JIANG Y.
 PA (KALO/) KALOS M. D.
 PA (FANG/) FANGER G. R.
 PA (RETT/) RETTER M. W.
 PA (STOL/) STOLK J. A.
 PA (DAYC/) DAY C. H.
 PA (VEDV/) VEDVICK T. S.
 PA (CART/) CARTER D.
 PA (LISK/) LI S. X.
 PA (WANG/) WANG A.
 PA (SKEL/) SKELLY Y. A. W.
 PA (HEPL/) HEPLER W. T.
 PA (HEND/) HENDERSON R. A.
 PA (HURA/) HURAL J.
 PA (MCNE/) MCNEILL P. D.
 PA (HOUN/) HOUGHTON R. L.
 PA (DBAS/) Y DE BASSOLS C. V.
 PA (FOYT/) FOY T. M.

XX Xu J, Dillon DC, Mutcham JL, Harlocker SL, Jiang Y, Kalos MD,
 PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D,
 PI Li SX, Wang A, Skeley YAM, Hepler WT, Henderson RA, Hural J,
 PI McNeill PD, Houghton RL, Y De Basols CV, Foy TM;
 XX WPI, 2001-245062/25.
 DR P-PSDB; AB071821.
 XX Prostate specific protein and its encoding polynucleotide, useful for the
 PT treatment and diagnosis of prostate cancer.
 XX
 PS Example 5, SEQ ID NO 878; 85bp; English.
 CC The invention describes a fusion protein comprising at least one amino
 CC acid sequence of immunogenic portions of any of the 3 sequences not
 CC defined in the specification, or sequences having at least 70 or 90 %
 CC sequence identity to any one of the 35 sequences defined in the USPTO web
 CC site, which is encoded by any of the 4 nucleotide sequences not defined
 CC in the specification. The fusion protein, composition and methods are
 CC useful for diagnosis, preventing and/or treating cancer, particularly
 CC prostate cancer. The proteins are useful as markers to indicate the
 CC presence or absence of cancer. This sequence represents a prostate cancer
 CC therapy associated cDNA. Note: The sequence data for this patent did not
 CC form part of the printed specification, but was obtained in electronic
 CC format directly from the US patent office at
 CC seqdata.uspto.gov/sequence.html?docid=US20020192763
 XX
 SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
 Query Match 100.0%; Score 1195; DB 5; Length 1195;
 Best Local Similarity 100.0%; Pred. No. 4,4e-276;
 Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 601 GTCGTCTTACCCAAATGAGCGCATCTCAAGATAGCAAGTGGTAACTGGGCATATCAAC 660
 DB 601 GTCGTCTTACCCAAATGAGCGCATCTCAAGATAGCAAGTGGTAACTGGGCATATCAAC 660
 QY 661 AGGTCCAAATAAATAAGAAAGATGCTGGATTTGACATGATATGTTGGAAATGAGATTT 720
 DB 661 AGGTCCAAATAAATAAGAAAGATGCTGGATTTGACATGATATGTTGGAAATGAGATTT 720
 QY 721 ATGTGCTCTGGGAAATGAGGATTTGCAATATGCTGCTGTGGCTGACATATTC 780
 DB 721 ATGTGCTCTGGGAAATGAGGATTTGCAATATGCTGCTGTGGCTGACATATTC 780
 QY 781 CATCTGTAGTACTCTTTTACATGAGAGAAATTTCACTAATATGACAAAGCTAGAA 840
 DB 781 CATCTGTAGTACTCTTTTACATGAGAGAAATTTCACTAATATGACAAAGCTAGAA 840
 QY 841 TTGTTTCCCTTTTACCTGGGCAATACAGCATTTGATTTTCCCTGGAAATAGTGAATG 900
 DB 841 TTGTTTCCCTTTTACCTGGGCAATACAGCATTTGATTTTCCCTGGAAATAGTGAATG 900
 QY 901 ATATATAAACAATTTGATATGATATACACCTCCAACTTTTATGATAGCTGTTCCCTCAA 960
 DB 901 ATATATAAACAATTTGATATGATATACACCTCCAACTTTTATGATAGCTGTTCCCTCAA 960
 QY 961 TTGTTGCTCGATATTTTAAAGCATATCTATTCCTGCATGCTTGAAGAAAGATATCTGA 1020
 DB 961 TTGTTGCTCGATATTTTAAAGCATATCTATTCCTGCATGCTTGAAGAAAGATATCTGA 1020
 QY 1021 AGATTAGACATGTTGGGAGAGAGCGTACCAAAATTTAACAACATGATGTCCTCCAGT 1080
 DB 1021 AGATTAGACATGTTGGGAGAGAGCGTACCAAAATTTAACAACATGATGTCCTCCAGT 1080
 QY 1081 TGTAGAAATTAAGTGTACACATTTTGTTCATATTTGATATGATATTTATATCCAAAT 1140
 DB 1081 TGTAGAAATTAAGTGTACACATTTTGTTCATATTTGATATGATATTTATATCCAAAT 1140
 QY 1141 TCAAGTTGTATTTGTTAATAAATGATTTTCAAGAGAAAAAATTTTTTTTTT 1195
 DB 1141 TCAAGTTGTATTTGTTAATAAATGATTTTCAAGAGAAAAAATTTTTTTTTT 1195
 RESULT 4
 ABL95531
 XX ABL95531 standard; cDNA; 1195 BP.
 XX
 AC ABL95531;
 DT 19-JUL-2002 (first entry)
 DE Human P789P cDNA sequence SEQ ID NO 878.
 XX
 KW Human; cancer; prostate cancer; vaccine; cytostatic; immunostimulant;
 XX gene therapy; gene; ss.
 OS Homo sapiens.
 XX
 PN US200202248-A1.
 XX
 PD 21-FEB-2002.
 XX
 PF 12-JAN-2001; 2001US-00759143.
 XX
 PR 25-FEB-1997; 97US-00806099.
 PR 01-AUG-1997; 97US-00904804.
 PR 10-FEB-1998; 98US-00020956.
 PR 25-FEB-1998; 98US-00030607.
 PR 14-JUL-1998; 98US-00115453.
 PR 23-SEP-1998; 98US-00159812.
 PR 15-JAN-1999; 99US-00232149.
 PR 09-APR-1999; 99US-00288946.
 PR 13-JUL-1999; 99US-00352616.
 PR 12-NOV-1999; 99US-00439313.

PR 18-NOV-1999; 99US-00443686.
 PR 14-JAN-2000; 2000US-00483672.
 PR 27-MAR-2000; 2000US-00536857.
 PR 09-MAY-2000; 2000US-00568100.
 PR 12-MAY-2000; 2000US-00570737.
 PR 13-JUN-2000; 2000US-00593793.
 PR 27-JUN-2000; 2000US-00605783.
 PR 10-AUG-2000; 2000US-00636215.
 PR 29-AUG-2000; 2000US-00651236.
 PR 06-SEP-2000; 2000US-00657279.
 PR 02-OCT-2000; 2000US-00679426.
 PR 10-OCT-2000; 2000US-00685166.
 XX
 PA (XUJ/) XU J.
 PA (DILL/) DILLON D C.
 PA (MITC/) MITCHAM J L.
 PA (HARL/) HARLOCKER S L.
 PA (JIAN/) JIANG Y.
 PA (KALO/) KALOS M D.
 PA (FANG/) FANGER G R.
 PA (RETT/) RETTER M W.
 PA (STOL/) STOLK J A.
 PA (DAYC/) DAY C H.
 PA (VEDV/) VEDVICK T S.
 PA (CART/) CARTER D.
 PA (LISX/) LI S X.
 PA (WANG/) WANG A.
 PA (SKEI/) SKEIKY Y A W.
 PA (HEPL/) HEPLER W T.
 PA (HEND/) HENDERSON R A.
 XX
 PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD,
 PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D,
 PI Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;
 XX
 DR WPI, 2002-255649/30.
 XX
 PT New prostate-specific polynucleotides for diagnosing and treating
 PT diseases, in particular prostate cancer, and as markers for the
 PT progression of cancer.
 XX
 PS Claim 1, SEQ ID NO 878; 87bp; English.
 XX
 CC The present invention provides prostate-specific coding sequences and
 CC their encoded proteins. These can be used in the diagnosis and treatment
 CC of cancers, particularly prostate cancer. The present sequence is a CDNA
 CC described in the invention
 XX
 SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
 Query Match 100.0%; Score 1195; DB 6; Length 1195;
 Best Local Similarity 100.0%; Pred. No. 4,4e-276;
 Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 301 CTATTATAGCATCTGACCTTTCTTTACACTCTTCGAGGGAAGTAATCACCCCTTAG 360
 DB 301 CTATTATAGCATCTGACCTTTCTTTACACTCTTCGAGGGAAGTAATCACCCCTTAG 360
 QY 361 CAACTTCCCATCAACAATATTTTATATAAATTCGAATCTGGTATCAACAAAGCTTGC 420
 DB 361 CAACTTCCCATCAACAATATTTTATATAAATTCGAATCTGGTATCAACAAAGCTTGC 420
 QY 421 CAATGGTTTCCATCACTCTCTGGCATTTGGATTTACCTGCAAGTGTGATAGCAAAATTG 480
 DB 421 CAATGGTTTCCATCACTCTCTGGCATTTGGATTTACCTGCAAGTGTGATAGCAAAATTG 480
 QY 481 TCCAACTTCATATGGAACCAAGTATAGAAGAGTTTCCACTTGGTGTAAAGTGAATG 540
 DB 481 TCCAACTTCATATGGAACCAAGTATAGAAGAGTTTCCACTTGGTGTAAAGTGAATG 540
 QY 541 TAAAGAAGAAAGAGTTTGGGCTTCTCAAGTTCTTTTTCCTGTACTGCATGCAATTATTA 600
 DB 541 TAAAGAAGAAAGAGTTTGGGCTTCTCAAGTTCTTTTTCCTGTACTGCATGCAATTATTA 600
 QY 601 GTCTGTCTTACCAATGAAGGCGATCTCTACAGATACAAAGTTGCTAAACTGGGCTATCAAC 660
 DB 601 GTCTGTCTTACCAATGAAGGCGATCTCTACAGATACAAAGTTGCTAAACTGGGCTATCAAC 660
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 DB 661 AGGTCCAAAGAAATTAAGAAAGATGCTGGATTGAGCATGATGTTTGGAGATGAGATTT 720
 QY 721 ATGTGTCTCTGGAAATTTGGGATTTGGCAATACCTGCTGTGTGCTGTGACATCTATTTC 780
 DB 721 ATGTGTCTCTGGAAATTTGGGATTTGGCAATACCTGCTGTGTGCTGTGACATCTATTTC 780
 QY 781 CATCTGTGAGTACCTTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGCTAGGAA 840
 DB 781 CATCTGTGAGTACCTTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGCTAGGAA 840
 QY 841 TTGTTTCCCTTCTACTGCGGCAATACACGATGATTTTTCCTGGAATTAAGTGAATG 900
 DB 841 TTGTTTCCCTTCTACTGCGGCAATACACGATGATTTTTCCTGGAATTAAGTGAATG 900
 QY 901 ATATATAAACAATTTGTATGTATATACACCTCCAACTTTATATGATGCTGTTTCTTCCAA 960
 DB 901 ATATATAAACAATTTGTATGTATATACACCTCCAACTTTATATGATGCTGTTTCTTCCAA 960
 QY 961 TTGTTGTCTGTATTTTAAAGCATATATTTCTGCAATGCTTGAAGAAAGATATCTTA 1020
 DB 961 TTGTTGTCTGTATTTTAAAGCATATATTTCTGCAATGCTTGAAGAAAGATATCTTA 1020
 QY 1021 AGATTAGACATGTTGGGAAGAGCTCACCAAAATTAACAAACTGAGATATGTTCCCACT 1080
 DB 1021 AGATTAGACATGTTGGGAAGAGCTCACCAAAATTAACAAACTGAGATATGTTCCCACT 1080
 QY 1081 TGTAGAAATTAATCTTTTACACACATTTTGTTCATATTTGATATATTTATATCAACAAT 1140
 DB 1081 TGTAGAAATTAATCTTTTACACACATTTTGTTCATATTTGATATATTTATATCAACAAT 1140
 QY 1141 TCAAGTTTGTATTTGTATATAAATGATTTATTCAGAGAAAAAATTTTTTTTTT 1195
 DB 1141 TCAAGTTTGTATTTGTATATAAATGATTTATTCAGAGAAAAAATTTTTTTTTT 1195
 RESULT 5
 ABK92128
 ID ABK92128 standard; DNA; 1195 BP.
 XX
 AC ABK92128;
 XX
 DT 15-AUG-2002 (first entry)
 XX
 DE Prostate cancer-associated DNA sequence #14.
 XX
 KW Prostate cancer; prostate tumour tissue; human; mammal; cytostatic;

KM gene therapy; gene; ds.
 OS Mammalia.
 PN WO200230268-A2.
 PD 18-APR-2002.
 XX 12-OCT-2001; 2001WO-US032045.
 PF 13-OCT-2000; 2000US-00687576.
 PR 08-DEC-2000; 2000US-00733288.
 PR 04-DEC-2000; 2000US-00733742.
 PR 24-JAN-2001; 2001US-0263957P.
 PR 16-MAR-2001; 2001US-0276791P.
 PR 16-MAR-2001; 2001US-0276888P.
 PR 06-APR-2001; 2001US-0281922P.
 PR 24-APR-2001; 2001US-0286214P.
 PR 30-APR-2001; 2001US-00847046.
 PR 04-MAY-2001; 2001US-0288589P.
 XX (EOSB-) EOS BIOTECHNOLOGY INC.
 PA Gish KC, Mack DH, Wilson KE, Afari D, Hevezi P;
 PI WPI; 2002-471335/50.
 DR P-8SDB; ABG61813.
 XX Detecting a prostate cancer-associated transcript in a cell in a patient,
 PT useful for diagnosing prostate cancer (PC) or screening modulators of PC,
 PT by determining if prostate cancer-associated genes are expressed in a
 PT prostate tissue.
 XX Claim 22; Page 311-312; 436pp; English.
 PS The present invention relates to methods of detecting a prostate cancer-
 CC associated transcript in a cell from a patient. The method comprises
 CC contacting a biological sample from the patient with prostate cancer-
 CC associated polynucleotides (designated PC genes) that selectively
 CC hybridize to a sequence that is at least 80% identical to them. The
 CC prostate cancer-associated polynucleotide sequences are differentially
 CC expressed in prostate tumour tissue or in prostate cancer and are derived
 CC from the tissues of various organisms such as humans or other mammals
 CC (e.g. mice, sheep and dogs). The methods of the invention are useful for
 CC diagnosing and treating prostate cancer in mammals. The prostate cancer-
 CC associated genes are useful for diagnosing or treating prostate cancer,
 CC as well as for identifying modulators of prostate cancer or agents that
 CC inhibit prostate cancer. The nucleic acid sequences are particularly
 CC useful in gene therapy, as a vaccine or in antisense applications.
 CC ABK92115-ABK92263 represent prostate cancer-associated polynucleotide
 CC sequences
 XX Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
 SQ
 Query Match 100.0%; Score 1195; DB 6; Length 1195;
 Best Local Similarity 100.0%; Pred. No. 4.4e-276;
 Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 241 CAGAACTTCAGACACACAGAGAACTTTTCACAGTGGCACTTGGCAATTTAAATACCTG 300
 Db 241 CAGAACTTCAGACACACAGAGAACTTTTCACAGTGGCACTTGGCAATTTAAATACCTG 300
 QY 301 CTATTATAGCACTCTGACATTTTCTTACACTCTTGTGAGGAAATATCACCCCTTAG 360
 Db 301 CTATTATAGCACTCTGACATTTTCTTACACTCTTGTGAGGAAATATCACCCCTTAG 360
 QY 361 CAATCTCCATCAACAAATATTTTATATAAATTCGAATCTGTGATCAACAAAGCTTTGC 420
 Db 361 CAATCTCCATCAACAAATATTTTATATAAATTCGAATCTGTGATCAACAAAGCTTTGC 420
 QY 421 CAATGTTTCATCACTCTCTGGCATTTGTTTACCTGCCAGGTGATATGCAACATTCG 480
 Db 421 CAATGTTTCATCACTCTCTGGCATTTGTTTACCTGCCAGGTGATATGCAACATTCG 480
 QY 481 TCCAACTTCATATATGGAACCAAGATATAGAAATTTTCCACATTTGGATTAAGTATGT 540
 Db 481 TCCAACTTCATATATGGAACCAAGATATAGAAATTTTCCACATTTGGATTAAGTATGT 540
 QY 541 TAAAGAAAGACAGTTTGGGCTTCTCAGTTTCTTTTGTGCTGACTGATGCAATTTATA 600
 Db 541 TAAAGAAAGACAGTTTGGGCTTCTCAGTTTCTTTTGTGCTGACTGATGCAATTTATA 600
 QY 601 GTCTGTCTTACCAATGAGGCGATCTTACATATCAAGTTGCTAAACCTGGGCAATACAC 660
 Db 601 GTCTGTCTTACCAATGAGGCGATCTTACATATCAAGTTGCTAAACCTGGGCAATACAC 660
 QY 661 AGGTCCAAACAAATTAAGAGAGATGCTGGATTGAGCATGATGTTTGGAAATGAGATTT 720
 Db 661 AGGTCCAAACAAATTAAGAGAGATGCTGGATTGAGCATGATGTTTGGAAATGAGATTT 720
 QY 721 ATGTCTCTCTGGAATTTGGGAATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTC 780
 Db 721 ATGTCTCTCTGGAATTTGGGAATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTC 780
 QY 781 CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTATTTTCAGAGCAAGCTAGGAA 840
 Db 781 CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTATTTTCAGAGCAAGCTAGGAA 840
 QY 841 TTGTTTCCCTCTACTGAGGACAAATACAGCATTTGATTTTCCCTGGAATAGTGATAG 900
 Db 841 TTGTTTCCCTCTACTGAGGACAAATACAGCATTTGATTTTCCCTGGAATAGTGATAG 900
 QY 901 ATATATAACAAATTTGTATGTATATACACCTCCAACTTTATATGATGCTGTTTCCCAA 960
 Db 901 ATATATAACAAATTTGTATGTATATACACCTCCAACTTTATATGATGCTGTTTCCCAA 960
 QY 961 TTGTTGCTCTGATATTTTAAAGCAATCTATTCCTGCGCATGCTTGGAGAAAGATATCTGA 1020
 Db 961 TTGTTGCTCTGATATTTTAAAGCAATCTATTCCTGCGCATGCTTGGAGAAAGATATCTGA 1020
 QY 1021 AGATTAGACATGTTGGGAAGACGTCACCAAAATTTAACAAAATGAGATATGTTCCAGT 1080
 Db 1021 AGATTAGACATGTTGGGAAGACGTCACCAAAATTTAACAAAATGAGATATGTTCCAGT 1080
 QY 1081 TGTAGAAATTAAGTTTACACACATTTTGTTCATATTTGATATATTTATTCACCAACAT 1140
 Db 1081 TGTAGAAATTAAGTTTACACACATTTTGTTCATATTTGATATATTTATTCACCAACAT 1140
 QY 1141 TCAAGTTTGTATTTGTTAATAAATGATATTTCAAGGAAAAAATTTTTTTTTT 1195
 Db 1141 TCAAGTTTGTATTTGTTAATAAATGATATTTCAAGGAAAAAATTTTTTTTTT 1195
 RESULT 6
 ACC95695
 ID ACC95695 standard; cDNA; 1195 BP.
 XX
 AC ACC95695;
 XX
 DT 28-NOV-2003 (first entry)

XX Prostate tumour specific cDNA sequence SEQ ID 878.
DE
XX
KM Cytostatic; gene therapy; prostate-specific protein; PSP; human;
KM Immune response; prostate cancer; ss.
OS Homo sapiens.
XX
PN MO200289747-A2.
XX
PD 14-NOV-2002.
XX
PF 09-MAY-2002; 2002MO-US014753.
XX
PR 09-MAY-2001; 2001US-00852911.
PR 29-JUN-2001; 2001US-00895814.
PR 10-DEC-2001; 2001US-00012896.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Henderson RA;
PI Kalos MD, Fanger GR, Retter MW, Stolk JA, Day CH, Vedrick TS;
PI Carter D, Li SX, Wang A, Skeiky YAM, Hepler WT, Hural J;
PI McNeill PD, Houghton RL, Vinals Y De Bassolis, Foy TM, Watanabe Y;
PI Deng T;
XX
DR MPI; 2003-167130/16.
XX
PT New prostate-specific proteins and genes, useful in gene therapy,
PT particularly for stimulating an immune response in a patient, or treating
PT prostate cancer in a patient, as well as for diagnosing prostate cancer
PT in a patient.
PS Example 5; Page 617-618; 691pp; English.
XX
XX The present invention relates to novel prostate-specific proteins (PSP)
CC and their coding sequences. The PSPs and their coding sequences are
CC useful for stimulating an immune response in a patient, or for treating
CC prostate cancer in a patient and for determining, detecting or diagnosing
CC the presence of a cancer in a patient. The present sequence was used to
CC illustrate the invention
XX
SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
Query Match 100.0%; Score 1195; DB 8; Length 1195;
Best Local Similarity 100.0%; Pred. No. 4,4e-276;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCGAGACTCAGGCTCAAGCTAAGCGGAGAGTGGGTGGCTGAAGCCATCTATTATTATAG 60
DB 1 CCGAGACTCAGGCTCAAGCTAAGCGGAGAGTGGGTGGCTGAAGCCATCTATTATTATAG 60
QY 61 AATTAATGGAAGCAGAAAAGACATCAAAACCAAGAACTTTGGAAAATAGAGCTTA 120
DB 61 AATTAATGGAAGCAGAAAAGACATCAAAACCAAGAACTTTGGAAAATAGAGCTTA 120
QY 121 GGAGAATTTAGAAAGAGAGATTTATTTGATTAAGGACAGGAGAGACCGAGATGCTAA 180
DB 121 GGAGAATTTAGAAAGAGAGATTTATTTGATTAAGGACAGGAGAGACCGAGATGCTAA 180
QY 181 AAGAGCTGTCTTTTGGATTTGACACCAACAGCCCATGCTGATGAATTTGACTGCCCTT 240
DB 181 AAGAGCTGTCTTTTGGATTTGACACCAACAGCCCATGCTGATGAATTTGACTGCCCTT 240
QY 241 CAGAACTTCAGCAGACAGAGAACTTTTCCACAGTGGCCTTGGCAATTTAAATAGCTG 300
DB 241 CAGAACTTCAGCAGACAGAGAACTTTTCCACAGTGGCCTTGGCAATTTAAATAGCTG 300
QY 301 CTATTATAGCATCTGACTCTTTCTTTACACTCTTTCAGAGGAGATTAATCACCCCTTAG 360
DB 301 CTATTATAGCATCTGACTCTTTCTTTACACTCTTTCAGAGGAGATTAATCACCCCTTAG 360
QY 361 CAATCTCCATCAACAATATTTTATTAATAATTCATCTGTGATCAACAAAGCTTTGC 420

DB 361 CAATCTCCATCAACAATATTTTATTAATAATTCATCTGTGATCAACAAAGCTTTGC 420
QY 421 CAATGTTTCCATCACTCTTGGCAATGGTGTATACCTGCCAGGTGATGACGCAATTG 480
DB 421 CAATGTTTCCATCACTCTTGGCAATGGTGTATACCTGCCAGGTGATGACGCAATTG 480
QY 481 TCCAACTTCATTAAGAACCAATATAGAAAGTTTCCACATTTGGATTGATTAAGTGTG 540
DB 481 TCCAACTTCATTAAGAACCAATATAGAAAGTTTCCACATTTGGATTGATTAAGTGTG 540
QY 541 TAAAGAAAGCACTTTGGCTTCTCACTTTCTTTTGGTGTACTGATGCAATTTATA 600
DB 541 TAAAGAAAGCACTTTGGCTTCTCACTTTCTTTTGGTGTACTGATGCAATTTATA 600
QY 601 GTCTGCTTACCAATGAGGCGATCTACAGATACAAAGTTGTTAACTGGGCAATATCAAC 660
DB 601 GTCTGCTTACCAATGAGGCGATCTACAGATACAAAGTTGTTAACTGGGCAATATCAAC 660
QY 661 AGGTCCAAACAAATTAAGAGATGCTGTGATTTGAGCATGATGTTTGGAGATGAGATT 720
DB 661 AGGTCCAAACAAATTAAGAGATGCTGTGATTTGAGCATGATGTTTGGAGATGAGATT 720
QY 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATACTGCTGTGGCTGTGACATCTATTTC 780
DB 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATACTGCTGTGGCTGTGACATCTATTTC 780
QY 781 CATCTGAGTGACTCTTTGACATGAGAAATTTTCATATATTCAGAGCACTGAGAA 840
DB 781 CATCTGAGTGACTCTTTGACATGAGAAATTTTCATATATTCAGAGCACTGAGAA 840
QY 841 TTGTTTCCCTTCTACTGCGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGA 900
DB 841 TTGTTTCCCTTCTACTGCGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGA 900
QY 901 ATATTAACAAATTTGATGTATATACACCTGCAACTTTTATGATAGCTGTTTCTTCCAA 960
DB 901 ATATTAACAAATTTGATGTATATACACCTGCAACTTTTATGATAGCTGTTTCTTCCAA 960
QY 961 TTGTTTCCCTTCTACTGCGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGA 1020
DB 961 TTGTTTCCCTTCTACTGCGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGA 1020
QY 1021 AGATTAGACATGTTGGGAAAGCTGACCAAAATTAACAAACCTGATATGTTCCAGT 1080
DB 1021 AGATTAGACATGTTGGGAAAGCTGACCAAAATTAACAAACCTGATATGTTCCAGT 1080
QY 1081 TGTAGAAATTAAGTGTATACACATTTTGTTCATATGATATATTTATCACCAACATT 1140
DB 1141 TGTAGAAATTAAGTGTATACACATTTTGTTCATATGATATATTTATCACCAACATT 1140
QY 1141 TCAAGTTTGTATTTGTTAATTAATAATGATTAATTCAGAAAGAAAAA 1195
DB 1141 TCAAGTTTGTATTTGTTAATTAATAATGATTAATTCAGAAAGAAAAA 1195
RESULT 7
ID ADB75572 standard; cDNA; 1195 BP.
XX
AC ADB75572;
XX
DT 04-DEC-2003 (first entry)
XX
DE Prostate cancer marker cDNA.
XX
KM Prostatic; cancer; cytostatic; gene therapy; marker; ss.
XX
OS Homo sapiens.
XX
PN MO2003009814-A2.
XX
PD 06-FEB-2003.

XX 25-JUL-2002; 2002WO-US023913.
XX
XX 25-JUL-2001; 2001US-0307982P.
PR 22-AUG-2001; 2001US-0314356P.
PR 25-SEP-2001; 2001US-0325020P.
PR 12-DEC-2001; 2001US-0341746P.
PR 05-MAR-2002; 2002US-0362158P.
XX
XX (MILL-) MILLENNIUM PHARM INC.
XX
XX Schlegel R, Monahan JE, Endege WO, Gannavarapu M, Gorbatcheva B,
PI Hoersh S, Kamatkar S, Womsey AM, Glatk K, Zhao X, Anderson D,
XX
XX WPI; 2003-248033/24.
XX
XX New nucleic acid molecule, useful for diagnosing or treating prostate
PT cancer.
XX
XX
XX Disclosure; SEQ ID NO 396; 99pp; English.
XX
XX The invention relates to newly discovered cancer markers associated with
CC the cancerous state of prostate cells. Also disclosed is a method of
CC assessing whether a patient is afflicted with prostate cancer. The method
CC of the invention involves assessing whether a patient is afflicted with
CC prostate cancer by comparing the level of expression of a marker in a
CC patient sample and the normal level of expression of the marker in a
CC control non-prostate cancer sample, where a significant increase in the
CC level of expression of the marker in the patient sample and the normal
CC level indicates that the patient is afflicted with prostate cancer.
CC Nucleic acids of the invention are useful for diagnosing or treating
CC prostate cancer, and may be useful in gene therapy. Sequences given in
CC AD875177-AD875631 represent marker cDNA and protein. Note: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 1195; DB 10; Length 1195;
Best Local Similarity 100.0%; Pred. No. 4,4e-276;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCGAGCTCAGCGTCAAGCTTAAGGCGAAGAGTGGTGGTGAAGCCATATTTATAG 60
DB 1 CCGAGCTCAGCGTCAAGCTTAAGGCGAAGAGTGGTGGTGAAGCCATATTTATAG 60
QY 61 AATTAAATGGAAGCAAGAAAGACATCAAAACCAAGAACTTTGGAATAATGACCTTA 120
DB 61 AATTAAATGGAAGCAAGAAAGACATCAAAACCAAGAACTTTGGAATAATGACCTTA 120
QY 121 GGAGAAATTTAGAGAGAGCATTTATTCATTAAGGACCGGAGAGACAGCATGCTAA 180
DB 121 GGAGAAATTTAGAGAGAGCATTTATTCATTAAGGACCGGAGAGACAGCATGCTAA 180
QY 181 AAAAGACTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGAATTTGACTGCTT 240
DB 181 AAAAGACTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGAATTTGACTGCTT 240
QY 241 CAGAACTTACGACACACAGAACTTTTCCACAGTGGCATTTGCCAATTAATATGCTG 300
DB 241 CAGAACTTACGACACACAGAACTTTTCCACAGTGGCATTTGCCAATTAATATGCTG 300
QY 301 CATTTATACATCTGACCTTTCTTACCTTCTGAGGGAGAAATTAACCTTTAG 360
DB 301 CATTTATACATCTGACCTTTCTTACCTTCTGAGGGAGAAATTAACCTTTAG 360
QY 361 CAACCTCCATCAACATATTTTATTAATTCATTCCTGATCAACAAAGCTTTCG 420
DB 361 CAACCTCCATCAACATATTTTATTAATTCATTCCTGATCAACAAAGCTTTCG 420
QY 421 CAATGTTTCATCACTCTCTTGGCAATGGTTTACCTGCGAGGTGATGACGCAATTG 480
DB 421 CAATGTTTCATCACTCTCTTGGCAATGGTTTACCTGCGAGGTGATGACGCAATTG 480

DB 421 CAATGTTTCATCACTCTCTTGGCAATGGTTTACCTGCGAGGTGATGACGCAATTG 480
QY 481 TCCAACTTCATTAATGGAACCAAGTATTAAGAGTTTCCACATTTGTTGATTAAGTATGT 540
DB 481 TCCAACTTCATTAATGGAACCAAGTATTAAGAGTTTCCACATTTGTTGATTAAGTATGT 540
QY 541 TAAAGAAAGAGAGTTTGGGCTTCTCAAGTTCTTTTGTCTGATGATGATGAAATTTATA 600
DB 541 TAAAGAAAGAGAGTTTGGGCTTCTCAAGTTCTTTTGTCTGATGATGATGAAATTTATA 600
QY 601 GTCTGTCTTACCCATGAGGCGATCTTACAGTACAGAGTTGCTAACTGGCATTCAC 660
DB 601 GTCTGTCTTACCCATGAGGCGATCTTACAGTACAGAGTTGCTAACTGGCATTCAC 660
QY 661 AGGTCCAAACAAATTAAGAGAGTGCCTGATTTAGCATGATGTTTGAATGAGATTT 720
DB 661 AGGTCCAAACAAATTAAGAGAGTGCCTGATTTAGCATGATGTTTGAATGAGATTT 720
QY 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATTCCTGCTGTGTGCTGATCATCTATTC 780
DB 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATTCCTGCTGTGTGCTGATCATCTATTC 780
QY 781 CATCTGTAGTACCTTTGACATGAGAGGAAATTTCACTATTTGAGAGCAAGCTTAGGA 840
DB 781 CATCTGTAGTACCTTTGACATGAGAGGAAATTTCACTATTTGAGAGCAAGCTTAGGA 840
QY 841 TTGTTTCCCTTCTACTGCGGCAATACACGATTTGCTGGAATTAAGTATAG 900
DB 841 TTGTTTCCCTTCTACTGCGGCAATACACGATTTGCTGGAATTAAGTATAG 900
QY 901 ATATTAACAAATTTGATGATTAATACACCTCCACCTTTATGATGATGCTTTCTCCAA 960
DB 901 ATATTAACAAATTTGATGATTAATACACCTCCACCTTTATGATGATGCTTTCTCCAA 960
QY 961 TTGTTGCTCTGATTTTAAAGCATACTATTCCTGCTGCTGAGGAAGATGACTGA 1020
DB 961 TTGTTGCTCTGATTTTAAAGCATACTATTCCTGCTGCTGAGGAAGATGACTGA 1020
QY 1021 AGATTAGCATGTTGGGAGAGCGTACCAAAATTTAACAAAATGAGATGTTCCAGT 1080
DB 1021 AGATTAGCATGTTGGGAGAGCGTACCAAAATTTAACAAAATGAGATGTTCCAGT 1080
QY 1081 TGTAGAAATTAATCTTTTACACACATTTTGTTCATATTTATTTATATCCAACTT 1140
DB 1081 TGTAGAAATTAATCTTTTACACACATTTTGTTCATATTTATTTATATCCAACTT 1140
QY 1141 TCAAGTTTGTATTTGTTAATTAATGATTTCAAGAAAAAATTTAAAAA 1195
DB 1141 TCAAGTTTGTATTTGTTAATTAATGATTTCAAGAAAAAATTTAAAAA 1195
RESULT 8
ADBI4328
ID ADBI4328 standard; cDNA; 1195 BP.
XX
XX ADBI4328;
XX
XX 18-DEC-2003 (first entry)
XX
XX
DE Human prostate specific full length cDNA P789P.
XX
XX Human; ss; prostate specific cDNA; cytostatic; immunostimulant;
XX gene therapy; cell therapy; vaccine; T-cell epitope;
XX class I major histocompatibility complex allele; MHC; prostate cancer;
XX tumour; antigen presenting cell.
OS Homo sapiens.
XX
XX US2003185830-A1.
XX
XX 02-OCT-2003.
XX
XX 12-NOV-2002; 2002US-00294025.
PF

XX 25-FEB-1997; 97US-00806099.
PR 01-AUG-1997; 97US-00904804.
PR 09-FEB-1998; 98US-00020956.
PR 25-FEB-1998; 98US-00030607.
PR 14-JUL-1998; 98US-00115453.
PR 23-SEP-1998; 98US-00159812.
PR 15-JAN-1999; 99US-00232149.
PR 09-APR-1999; 99US-00288946.
PR 13-JUL-1999; 99US-00352616.
PR 12-NOV-1999; 99US-00439313.
PR 18-NOV-1999; 99US-00436866.
PR 14-JAN-2000; 2000US-00483672.
PR 27-MAR-2000; 2000US-00536857.
PR 09-MAY-2000; 2000US-00568100.
PR 12-MAY-2000; 2000US-00570737.
PR 13-JUN-2000; 2000US-00593793.
PR 27-JUN-2000; 2000US-00605783.
PR 09-AUG-2000; 2000US-00636215.
PR 29-AUG-2000; 2000US-00651236.
PR 06-SEP-2000; 2000US-00657279.
PR 02-OCT-2000; 2000US-00679426.
PR 10-OCT-2000; 2000US-00685166.
PR 09-NOV-2000; 2000US-00709729.
PR 12-JAN-2001; 2001US-00759143.
PR 09-FEB-2001; 2001US-00780669.
PR 09-MAY-2001; 2001US-00852911.
PR 28-JUN-2001; 2001US-00895814.
PR 10-DEC-2001; 2001US-00012896.
PR 09-MAY-2002; 2002US-00144678.

XX (CORI-) CORIXA CORP.

XX Xu J, Stolk JA, Kalos MD;

XX WPI; 2003-756193/71.

DR P-PSDB; ADB14329.

XX New isolated polypeptide for use in a vaccine for stimulating an immune

PT response, or for treating or diagnosis cancer, preferably prostate

PT cancer.

XX Example 5; Page; 101pp; English.

PS The invention relates to an isolated polypeptide comprising no more than
XX 11-542 amino acids of ADB13563 comprising a sequence ADB14487. The
CC peptides comprise a fragment ADB13563 of that contain naturally processed
CC 1-cell epitopes for 3 class I major histocompatibility complex (MHC)
CC alleles. ADB13563 is a polypeptide encoded by a human prostate specific
CC cDNA, one of 648 disclosed as new. Also included are nucleic acids
CC encoding the proteins and peptides, expression vectors, a host cell
CC transformed with the vector, an isolated antibody (or antigen binding
CC fragment) that specifically binds to the protein or peptide, detecting
CC the presence of a cancer in a patient (comprising contacting a patient
CC sample with a binding agent that binds to the peptides or a polypeptide
CC appearing as ADB13558, detecting the amount of polypeptide that binds to
CC the agent and comparing the amount of polypeptide to a predetermined cut-
CC off value to determine the presence of cancer), a fusion protein
CC comprising the peptides or proteins, stimulating or expanding T cells
CC specific for a tumour protein comprising contacting T cells with the
CC peptides or the isolated T cell population, treating prostate cancer in a
CC patient comprising administering a composition comprising the peptides,
CC nucleic acids, antibodies or compounds, determining the presence of a
CC cancer in a patient and treating prostate cancer in a patient comprising
CC inoculating a cluster of differentiations (Cda+) and/or Cda+ T cells isolated
CC from a patient with the peptides or antigen presenting cells that express
CC (the peptides so that the T cells proliferate, and administering the
CC proliferated T cells to the patient. The peptides (or an oligonucleotide
CC that hybridises to nucleic acid encoding them), is used to detect the
CC presence of cancer in a patient. The peptides, nucleic acids encoding, or
CC antigen-presenting cells expressing the nucleic acid, are used to
CC stimulate or expand T cells specific for a tumour protein. The peptides,
CC nucleic acids, antibodies, fusion proteins, T cell populations or antigen

CC presenting cells are used to stimulate an immune response or treat
CC prostate cancer in a patient. The present sequence is a known cDNA
CC showing sequence similarity to one of the disclosed human prostate
CC specific cDNAs. Note: Except where otherwise indicated, the sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docId=20030185830.

XX Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1195; DB 10; Length 1195;

Best Local Similarity 100.0%; Pred. No. 4,4e-276;

Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 CCGAGACTACGCTCAAGCTAAGCGGAGAGGCGGCTGAAGCCATCTATTTATAG 60
1 CCGAGACTACGCTCAAGCTAAGCGGAGAGGCGGCTGAAGCCATCTATTTATAG 60
61 AATTATGGAAGAGCAGAAAAGACATCAAAACCAAGAAAGAACTTTGAAAATGAAAGCTTA 120
61 AATTATGGAAGAGCAGAAAAGACATCAAAACCAAGAAAGAACTTTGAAAATGAAAGCTTA 120
121 CGAGAAATTTAGAGAAAGAGATTAATTTGCATTAAGAGACCGGAGAGACCATGCTTA 180
121 GGAGAAATTTAGAGAAAGAGATTAATTTGCATTAAGAGACCGGAGAGACCATGCTTA 180
181 AAAGACCTGCTTTTGGATTGGACCAAGCCCATGCTGATTAATTTGACCTGCTT 240
181 AAAGACCTGCTTTTGGATTGGACCAAGCCCATGCTGATTAATTTGACCTGCTT 240
241 CAGAACTTACGACACACAGAGAACTTTCCACAGTGGAGCTTCCAAATTAATATAGCTG 300
241 CAGAACTTACGACACACAGAGAACTTTCCACAGTGGAGCTTCCAAATTAATATAGCTG 300
301 CTATTATAGCATCTGCTGACTTTTCTTACACCTCTTGAAGGAGATTAATCACTTATG 360
301 CTATTATAGCATCTGCTGACTTTTCTTACACCTCTTGAAGGAGATTAATCACTTATG 360
361 CAACCTCCCATCAACAAATTTTATTAATTTCAATCTTGATCAACAAAGATCTTGC 420
361 CAACCTCCCATCAACAAATTTTATTAATTTCAATCTTGATCAACAAAGATCTTGC 420
421 CAATGTTTCATCACTCTCTTGGATTGGATTGGATTGGATTGGATTGGATTGGATTGG 480
421 CAATGTTTCATCACTCTCTTGGATTGGATTGGATTGGATTGGATTGGATTGGATTGG 480
481 TCCAACTTATATGGAACCAAGTATTAAGAAAGTTTCCACATTTGGATTGGATTGGATTG 540
481 TCCAACTTATATGGAACCAAGTATTAAGAAAGTTTCCACATTTGGATTGGATTGGATTG 540
541 TAAACAAGAAAGAGTTGGGCTTCAAGTTCTTTTGGCTGCTGCTGCTGCTGCTGCTGCT 600
541 TAAACAAGAAAGAGTTGGGCTTCAAGTTCTTTTGGCTGCTGCTGCTGCTGCTGCTGCT 600
601 GTCTGCTTACCAATGAGGCGATCTCAAGATTAAGTTGCTTAAGTGGCATATCAAC 660
601 GTCTGCTTACCAATGAGGCGATCTCAAGATTAAGTTGCTTAAGTGGCATATCAAC 660
661 AGSTCCAAACAAATTAAGAAAGATGCTGATTTGAACATGATTTGGAGAAATGAGATTT 720
661 AGSTCCAAACAAATTAAGAAAGATGCTGATTTGAACATGATTTGGAGAAATGAGATTT 720
721 ATGTGCTCTGGGAATTTGGGATTTGGGATTTGGGATTTGGGATTTGGGATTTGGGATTT 780
721 ATGTGCTCTGGGAATTTGGGATTTGGGATTTGGGATTTGGGATTTGGGATTTGGGATTT 780
781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGA 840
781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGA 840
841 TTGTTTCCCTTCTACTGGGCAATATCAAGCATTTGATTTTGGCTGGAATTAAGTGATAG 900
841 TTGTTTCCCTTCTACTGGGCAATATCAAGCATTTGATTTTGGCTGGAATTAAGTGATAG 900

QY 901 ATATATAAATTTGTATGTATACACCTCCAACTTTTATGATAGCTGTTCCTCCAA 960
DB 901 ATATATAAATTTGTATGTATACACCTCCAACTTTTATGATAGCTGTTCCTCCAA 960
QY 961 TTGTGTCCTGATATTTAAAGCATCTATTCCTGCCATGCTTGGAAGAAAGATATCGA 1020
DB 961 TTGTGTCCTGATATTTAAAGCATCTATTCCTGCCATGCTTGGAAGAAAGATATCGA 1020
QY 1021 AGATTAGACATGGTGGGAAGAGCTCACCAAAATTTAACMAAATGAGATATGTTCCAGT 1080
DB 1021 AGATTAGACATGGTGGGAAGAGCTCACCAAAATTTAACMAAATGAGATATGTTCCAGT 1080
QY 1081 TGTAGAAATTAATCTTTTACACACATTTTGTTCATATTTGATATATTTATCCAAACATT 1140
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QY 1141 TCAAGTTGTATTTGTATATATAAATGATTTTCAAGGAAAAAATTTTAAAAA 1195
DB 1141 TCAAGTTGTATTTGTATATATAAATGATTTTCAAGGAAAAAATTTTAAAAA 1195

RESULT 9
AAD63162
ID AAD63162 standard; DNA, 1195 BP.
XX
XX AAD63162;
AC
XX 12-FEB-2004 (first entry)
DT
DE Human STEAP (six transmembrane epithelial antigen of the prostate) DNA.
XX
XX Human; breast cancer; metastasis; differential modulation; therapy;
KW STEAP; six transmembrane epithelial antigen of the prostate; ds.
XX
OS Homo sapiens.
XX
XX US2003190656-A1.
XX
XX 09-OCT-2003.
PD
XX 21-MAR-2003; 2003US-00393590.
PF
XX 29-MAR-2002; 2002US-0368789P.
PR
XX (WANG/) WANG Y.
PA
XX Wang Y;
PI
XX WPI; 2003-831621/77.
DR
XX
XX Prognosticating metastasis in a breast cancer patient comprises
PT identifying differential modulation of each gene relative to the
PT expression of the same genes in a normal population in combination of
PT genes.
XX
XX Example 2; Page 54-55; Opp; English.
XX
XX The present invention relates to a method of prognosticating metastasis
CC in a breast cancer patient involves identifying differential modulation
CC of each gene relative to the expression of the same genes in a normal
CC population in combination of genes. The invention is useful for
CC prognosticating breast cancer in a patient. The present sequence is human
CC STEAP (six transmembrane epithelial antigen of the prostate) DNA used to
CC illustrate the method of the invention
XX
SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1195; DB 10; Length 1195;
Best Local Similarity 100.0%; Pred. No. 4.4e-276;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGAGACTCAGCGTCAAGCTTAAGGCGAAGCTGGGTGGCTGAAGCCATCTACTATTATATAG 60

DB 1 CCGAGACTCAGCGTCAAGCTTAAGGCGAAGCTGGGTGGCTGAAGCCATCTACTATTATATAG 60
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QY 181 AAAGACCTGCTTTTGGCATTTGGACCAAAACAGCCCATGCTGATGAATTTGACTGCCCTT 240
DB 181 AAAGACCTGCTTTTGGCATTTGGACCAAAACAGCCCATGCTGATGAATTTGACTGCCCTT 240
QY 241 CAGAACTTCAGCACACACAGAACTTTTCCACAGTGGCATTTGCCAATTTAAATAGCTG 300
DB 241 CAGAACTTCAGCACACACAGAACTTTTCCACAGTGGCATTTGCCAATTTAAATAGCTG 300
QY 301 CTATTATAGCATCTCTGACCTTTTCTTTACACTCTTGAAGGAAAGTAAATACCCCTTAG 360
DB 301 CTATTATAGCATCTCTGACCTTTTCTTTACACTCTTGAAGGAAAGTAAATACCCCTTAG 360
QY 361 CAACTTCCCATCAACAATATTTTATAAAATTTCCAAATCTGTCATCAACAAGCTCTTGC 420
DB 361 CAACTTCCCATCAACAATATTTTATAAAATTTCCAAATCTGTCATCAACAAGCTCTTGC 420
QY 421 CAATGTTTTCATCATCTCTCTTGGCAGTGTGTTTACCTGCCAGTGTGATAGCAGCAATG 480
DB 421 CAATGTTTTCATCATCTCTCTTGGCAGTGTGTTTACCTGCCAGTGTGATAGCAGCAATG 480
QY 481 TCCAACTTCATTAAGGAAACCAAGTAAAGAGTTTCCAAATGGTGGATAGAGTATGATGT 540
DB 481 TCCAACTTCATTAAGGAAACCAAGTAAAGAGTTTCCAAATGGTGGATAGAGTATGATGT 540
QY 541 TTAACAAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTGTCTGTATCTGCATGCAATTTTA 600
DB 541 TTAACAAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTGTCTGTATCTGCATGCAATTTTA 600
QY 601 GTCTGCTTACCCTCAATGAGGCGATCTTACAGATACAGATGCTTAACTGGCATTCAC 660
DB 601 GTCTGCTTACCCTCAATGAGGCGATCTTACAGATACAGATGCTTAACTGGCATTCAC 660
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DB 661 AGGTCCAAACAAATTAAGAAATGCTGGAATTTGAGCATGATGTTGGAAATGAGATTT 720
QY 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTGCTGTGATCATCTATTC 780
DB 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTGCTGTGATCATCTATTC 780
QY 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTTAGGA 840
DB 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTTAGGA 840
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QY 901 ATATATAAATTTGTATGTATACACCTCCAACTTTTATGATAGCTGTTCCTCCAA 960
DB 901 ATATATAAATTTGTATGTATACACCTCCAACTTTTATGATAGCTGTTCCTCCAA 960
QY 961 TTGTGTCCTGATATTTAAAGCATCTATTCCTGCCATGCTTGGAAGAAAGATATCGA 1020
DB 961 TTGTGTCCTGATATTTAAAGCATCTATTCCTGCCATGCTTGGAAGAAAGATATCGA 1020
QY 1021 AGATTAGACATGGTGGGAAGAGCTCACCAAAATTTAACMAAATGAGATATGTTCCAGT 1080
DB 1021 AGATTAGACATGGTGGGAAGAGCTCACCAAAATTTAACMAAATGAGATATGTTCCAGT 1080
QY 1081 TGTAGAAATTAATCTTTTACACACATTTTGTTCATATTTGATATATTTATCCAAACATT 1140

DE Human prostate-specific cDNA #678.

XX Human: prostate-specific polypeptide; gene; ss; prostate cancer;
KM cytosolic.

XX Homo sapiens.

OS US2003157089-A1.

XX 21-AUG-2003.

PF 09-MAY-2002; 2002US-00144678.

XX 25-FEB-1997; 97US-00806099.

PR 01-AUG-1997; 97US-00904804.

PR 09-FEB-1998; 98US-00020956.

PR 25-FEB-1998; 98US-00030607.

PR 14-JUL-1998; 98US-00115453.

PR 23-SEP-1998; 98US-00159812.

PR 15-JAN-1999; 99US-00232149.

PR 09-APR-1999; 99US-00288946.

PR 13-JUL-1999; 99US-00352616.

PR 12-NOV-1999; 99US-00439313.

PR 18-NOV-1999; 99US-00443686.

PR 14-JAN-2000; 2000US-00483672.

PR 27-MAR-2000; 2000US-00536857.

PR 09-MAY-2000; 2000US-00568100.

PR 12-MAY-2000; 2000US-00570737.

PR 13-JUN-2000; 2000US-00593793.

PR 27-JUN-2000; 2000US-00605783.

PR 09-AUG-2000; 2000US-00636215.

PR 29-AUG-2000; 2000US-00651236.

PR 06-SEP-2000; 2000US-00657279.

PR 02-OCT-2000; 2000US-00679426.

PR 10-OCT-2000; 2000US-00685168.

PR 09-NOV-2000; 2000US-00709729.

PR 12-JAN-2001; 2001US-00759143.

PR 09-FEB-2001; 2001US-00780669.

PR 09-MAY-2001; 2001US-00852911.

PR 29-JUN-2001; 2001US-00895814.

PR 10-DEC-2001; 2001US-00012896.

XX (CORI-) CORIXA CORP.

PA Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Henderson RA;
PI Kalos MD, Fanger GR, Retter MW, Stolk JA, Day CH, Vedvik TS;
PI Carter D, Li SX, Wang A, Skeiky YAW, Hepler WT, Hurai J;
PI McNeill PD, Houghton RL, Vinals Y De Bassolis, Foy TM, Matanabe Y;
PI Meagher MJ, Deng T;

XX MPI: 2003-777973/73.
DR P-PSDB; ADS6745.
XX New polynucleotides encoding prostate specific polypeptides isolated from
PT a human prostate tumor cDNA library are useful to diagnose and treat
PT cancer particularly prostate cancer.
XX Example 5; SEQ ID NO 878; 99pp; English.
PS The invention relates to human prostate-specific polypeptides and the
XX polynucleotides encoding them. The invention also relates to an isolated
XX antibody or its antigen-binding fragment that specifically binds a
XX polypeptide of the invention, a method of detecting cancer in a patient
XX comprising contacting a biological sample of the patient with an agent
XX that binds a prostate-specific polypeptide and comparing the amount of
XX bound polypeptide compared to a predetermined cut-off value and a fusion
XX protein comprising a prostate-specific polypeptide. The sequences of the
XX invention are used to diagnose and treat cancer, particularly prostate
XX cancer. This sequence represents cDNA encoding a human prostate-specific
XX polypeptide of the invention. Note: The sequence data for this patent did
XX not form part of the printed specification but was obtained in electronic
XX format directly from USPTO at seqdata.uspto.gov/sequence.html.


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Db ||||| 361 CAACCTCCCATCAACAATATTTTATMAAATTCATCTGCTCATCAACAAAGCTTGC 420
Qy ||||| 421 CAATGTTTCACTGCTCTTGSCATTTGTTTACCTGCAAGTGTATAGCAGCAATTTG 480
Db ||||| 421 CAATGTTTCACTGCTCTTGSCATTTGTTTACCTGCAAGTGTATAGCAGCAATTTG 480
Qy ||||| 481 TCCAACTTCATTAATGGAACCAAGTATTAAGAACTTCCACATTTGTTGATTAAGTGAATG 540
Db ||||| 481 TCCAACTTCATTAATGGAACCAAGTATTAAGAACTTCCACATTTGTTGATTAAGTGAATG 540
Qy ||||| 541 TTAACAAGAAAGCAAGTTTGCTTCTCAGTTTCTTTTCTGCTACTGTCAGTAATTTATTA 600
Db ||||| 541 TTAACAAGAAAGCAAGTTTGCTTCTCAGTTTCTTTTCTGCTACTGTCAGTAATTTATTA 600
Qy ||||| 601 GTCTGCTTACCAATAGAGGCAATCTTCAATCAATCAAGTTGCTAACTGGGCAATCAAC 660
Db ||||| 601 GTCTGCTTACCAATAGAGGCAATCTTCAATCAATCAAGTTGCTAACTGGGCAATCAAC 660
Qy ||||| 661 AGGTCCAAACAAATTAAGAAAGTGCCTGATTTAGAGCATGTTTGGAGAAATGAGATT 720
Db ||||| 661 AGGTCCAAACAAATTAAGAAAGTGCCTGATTTAGAGCATGTTTGGAGAAATGAGATT 720
Qy ||||| 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTC 780
Db ||||| 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTC 780
Qy ||||| 781 CATCTGTAGTACCTTTGACATGAGAGAAATTTCACTATTAATCAAGCAAGTATGAA 840
Db ||||| 781 CATCTGTAGTACCTTTGACATGAGAGAAATTTCACTATTAATCAAGCAAGTATGAA 840
Qy ||||| 841 TTGTTTCCCTTCTACTGAGCAATACAGCATTTGATTTTCTGCTGGAATTAAGTGAATG 900
Db ||||| 841 TTGTTTCCCTTCTACTGAGCAATACAGCATTTGATTTTCTGCTGGAATTAAGTGAATG 900
Qy ||||| 901 ATATAAACAATTTGATATGATATACACCTCCCACTTTATGATGTTTCTCTCCAA 960
Db ||||| 901 ATATAAACAATTTGATATGATATACACCTCCCACTTTATGATGTTTCTCTCCAA 960
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RESULT 15
ADL06462
ID ADL06462 strand: cDNA, 1195 BP.
XX
XX ADL06462;
XX
XX 20-MAY-2004 (first entry)
XX
XX Human tumour-associated antigenic target (TAT) cDNA sequence #42.
XX
XX Human; tumour-associated antigenic target; TAT; cell death; tumour;
XX cancer; cytosolic; gene; ss.
XX
XX Homo sapiens.
XX
XX WO2004016225-A2.
XX
```

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PD 26-FEB-2004.
XX
XX 19-AUG-2003; 2003WO-US025892.
XX
XX 19-AUG-2002; 2002US-0404809P.
XX
XX 21-AUG-2002; 2002US-0405645P.
XX
XX 23-SEP-2002; 2002US-0413192P.
XX
XX 15-OCT-2002; 2002US-0419086P.
XX
XX 15-NOV-2002; 2002US-0426847P.
XX
XX 02-JUL-2003; 2003US-0484959P.
XX
XX (GETH ) GENENTECH INC.
XX
XX Desauvage FJ, Frantz G, Hillan KJ, Polakis P, Polson A, Smith V;
XX Spencer SD, Wu TD, Zhang Z;
XX
XX WPI: 2004-257144/24.
XX
XX P-PSDB: ADL06542.
XX
XX
XX New antibody that binds to a tumor-associated antigenic target (TAT)
XX polypeptide, useful for preparing a composition for diagnosing or
XX treating cancer.
XX
XX Claim 1; SEQ ID NO 42; 319pp; English.
XX
XX The present invention relates to the isolation of human tumour-associated
XX antigenic target (TAT) polynucleotide and polypeptide sequences. Also
XX disclosed is an antibody that binds to a TAT polypeptide. The antibody is
XX a monoclonal antibody, an antibody fragment, a chimeric antibody or a
XX humanized antibody. It is conjugated to a growth inhibitory agent. It is
XX produced in bacteria or in CHO cells and induces death of a cell to which
XX it binds. The antibody is useful for preparing a composition for
XX diagnosing or treating tumours and cancer. The present sequence
XX represents a human TAT cDNA sequence of the invention.
XX
XX Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 1195; DB 12; Length 1195;
XX Best Local Similarity 100.0%; Pred. No. 4,4e-276; Indels 0; Gaps 0;
XX Matches 1195; Conservative 0; Mismatches 0;
XX
Qy 1 CCGAGACTCAGCGTCAAGCTAAGGGAAGTGGTGGCTGAAGCCATATTTATATAG 60
Db 1 CCGAGACTCAGCGTCAAGCTAAGGGAAGTGGTGGCTGAAGCCATATTTATATAG 60
Qy 61 AATTATGGAAGCAAGAAAGCATCAACAAACCAAGAACTTTGAAATGAAGCTTA 120
Db 61 AATTATGGAAGCAAGAAAGCATCAACAAACCAAGAACTTTGAAATGAAGCTTA 120
Qy 121 GGAAGAAATTTAGAAAGACGATTTTGGCATTAAGGACACGGGAGAGACCAAGATGCTTA 180
Db 121 GGAAGAAATTTAGAAAGACGATTTTGGCATTAAGGACACGGGAGAGACCAAGATGCTTA 180
Qy 181 AAAAGCTGTGCTTTGCTTTGCACTTGGCAACCAAGCCATGCTGATGATTTGACGCTT 240
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Qy 241 CAGAACTTCAGCACACACAGAACTTTTCCACAGTGGCACTTGGCAATTAATAATGCTG 300
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Db 361 CAACCTCCCATCAACATATTTTAAATTCATCTGCTGATCAACAAAGCTTTCG 420
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DB |||||||
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DB 661 AGGTCCAAACAAATTAAGAAAGATGCTGAGATTGAGCATGATGTTGGAGATGAGATTT 720
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DB 721 ATGTGCTCTGGGAATTGTGGGATTGGCAATACCTGGCTGGCTGTGACATCTATTC 780
QY 781 CATCTGTAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGAA 840
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DB |||||||
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QY 1081 TGTAGAATTACGTTTACACATTTTGTCAATATGATATATTTATCACCACATT 1140
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Job time : 807.249 secs

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GenCore version 5.1.6
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Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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1: gb_ba:*
2: gb_in:*
3: gb_env:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pr:*
9: gb_ro:*
10: gb_sts:*
11: gb_sy:*
12: gb_un:*
13: gb_vi:*
14: gb_htg:*
15: gb_pl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1195	100.0	1195	6	AR366780	AR366780 Sequence
3	1195	100.0	1195	6	AR405830	AR405830 Sequence
4	1195	100.0	1195	6	AR564210	AR564210 Sequence
5	1195	100.0	1195	6	AR589196	AR589196 Sequence
6	1195	100.0	1195	6	AR654075	AR654075 Sequence
7	1195	100.0	1195	6	AX201105	AX201105 Sequence
8	1195	100.0	1195	6	AX267904	AX267904 Sequence
9	1195	100.0	1195	6	AX926483	AX926483 Sequence
10	1195	100.0	1195	6	AX951736	AX951736 Sequence
11	1195	100.0	1195	6	AX960014	AX960014 Sequence
12	1195	100.0	1195	8	AF186249	AF186249 Homo sapi
13	1195	100.0	1195	6	CQ981397	CQ981397 Sequence
14	1195	100.0	1195	6	CS031875	CS031875 Sequence
15	1195	100.0	1195	6	CS036259	CS036259 Sequence
16	1195	100.0	1195	6	CS040827	CS040827 Sequence
17	1195	100.0	1195	6	CS045211	CS045211 Sequence
18	1193	99.8	1193	6	BD232184	BD232184 Novel ser

19	1193	99.8	1193	6	AR617054	AR617054 Sequence
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21	1191.8	99.7	1240	8	BC011802	BC011802 Homo sapi
22	1178	98.6	1277	6	CQ412819	CQ412819 Sequence
23	946.6	79.2	1754	4	AF319659	AF319659 Sub retrof
24	825.6	69.1	3627	6	BD232188	BD232188 Novel ser
25	825.6	69.1	3627	6	AR366784	AR366784 Sequence
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27	825.6	69.1	3627	6	AR654079	AR654079 Sequence
28	825.6	69.1	3627	6	AX155248	AX155248 Sequence
29	810.2	67.8	1234	9	BC061023	BC061023 Mus muscu
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31	806	67.4	1211	6	CQ777614	CQ777614 Sequence
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34	675.8	56.6	1209	8	BC066301	BC066301 Homo sapi
35	581	48.6	592	6	BD242240	BD242240 Compounds
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37	581	48.6	592	6	AR367143	AR367143 Sequence
38	581	48.6	592	6	AR371039	AR371039 Sequence
39	581	48.6	592	6	AR400179	AR400179 Sequence
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42	581	48.6	592	6	AR588812	AR588812 Sequence
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ALIGNMENTS

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DEFINITION Sequence CQ776742
ACCESSION CQ776742
VERSION CQ776742.1 GI:45380132
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1
Ohtani,N., Sugita,Y., Yamaya,M., Kubo,H., Nagai,H. and Izuhara,K.
METHODS OF TESTING FOR BRONCHIAL ASTHMA OR CHRONIC OBSTRUCTIVE
PULMONARY DISEASE
Patent: EP 1394274-A 428 03-MAR-2004;
Genex Research, Inc. (JP)
FEATURES
source 1.1195
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 5.5e-238; Indels 0; Gaps 0;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 CCGAGACTCAGGTCAGTAAAGTCGAGAGTGGTGGTGAAGCCATATTATTATAG 60
QY 61 AATTATGGAAGCAGAAAGCATCAACCAAGAACTTTGAAAATGAAGCTTA 120
61 AATTATGGAAGCAGAAAGCATCAACCAAGAACTTTGAAAATGAAGCTTA 120
DB 61 AATTATGGAAGCAGAAAGCATCAACCAAGAACTTTGAAAATGAAGCTTA 120
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DB 121 GGAGAAATTTAGGAAGAGCATTTATTTGATTAAGGACAGGAGAGACAGCATGCTAA 180

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DB 421 CAATGGTTCCATCACTCTCTTGCAATGGTTTACCGGAGGTGATGACGCAATTG 480
QY 481 TCCAACTTCATTAATGGAACCAAGTATAGAAGTTTCCAACTGGATTAAGTGAATG 540
DB 481 TCCAACTTCATTAATGGAACCAAGTATAGAAGTTTCCAACTGGATTAAGTGAATG 540
QY 541 TAAACAAGAAAGCATTTGGGCTTCTCACTTTCTTTTCTGCTGATGCAATTTATA 600
DB 541 TAAACAAGAAAGCATTTGGGCTTCTCACTTTCTTTTCTGCTGATGCAATTTATA 600
QY 601 GTCTGCTTACCAATGAGGCGATCTCTACAGATTAACAAGTTGCTAACTGGGCAATCAAC 660
DB 601 GTCTGCTTACCAATGAGGCGATCTCTACAGATTAACAAGTTGCTAACTGGGCAATCAAC 660
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RESULT 2
AR366780
LOCUS
DEFINITION Sequence 1 from patent US 6329503.
1195 bp DNA linear PAT 12-SEP-2003

ACCESSION AR366780
VERSION AR366780.1 GI:3459746
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1195)
AUTHORS Afari,D.E., Hubert,R.S., Leong,K., Raitano,A.B., Saffran,D.C. and Mitchell,S.C.
TITLE Serpentine transmembrane antigens expressed in human cancers and uses thereof
JOURNAL Patent: US 6329503-A 1 11-DEC-2001;
Agensys, Inc.; Santa Monica, CA;
WOX;
FEATURES
source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
ORIGIN
Query Match 100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 5-5e-238;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCGAGACTCAGGCTCAAGCTTAAGCGAAGATGGGTGCTGAAGCCATCTATTTATATG 60
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Qy 1141 TCAAGTTTGTATTTGTTTAAATGAATGATTTTCAAGGAAAAA 1195
Db 1141 TCAAGTTTGTATTTGTTTAAATGAATGATTTTCAAGGAAAAA 1195

RESULT 3
AR405830 1195 bp DNA linear PAT 18-DEC-2003
LOCUS AR405830
DEFINITION Sequence 878 from patent US 6630305.
ACCESSION AR405830
VERSION AR405830.1 GI:40154667
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1195)
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Kaijoh,M.D., Ranger,G.R., Retzer,M.W., Stolk,J.A., Day,C.H.,
Vedvick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A.W.,
Hepler,W.T. and Henderson,R.A.
TITL Composition and methods for the therapy and diagnosis of prostate
cancer
JOURNAL Patent: US 6630305-A 878 07-OCT-2003;
Corixa Corporation; Seattle, WA;
MOX;

FEATURES
source 1..1195
Location/Qualifiers
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 5,5e-238;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGAGACTCAACGCTCAAGCTTAAGCGAAGTGGTGGCTGAACCACTATTTTAG 60
Db 1 CCGAGACTCAACGCTCAAGCTTAAGCGAAGTGGTGGCTGAACCACTATTTTAG 60
Qy 61 AATTATGAGAAAGCAAGAAACATCACAAAACCAAGAACTTTGAAAAAGAGCTTA 120
Db 61 AATTATGAGAAAGCAAGAAACATCACAAAACCAAGAACTTTGAAAAAGAGCTTA 120
Qy 121 GGAGAAAATTTTGAAGAAGACATTTATTTGATTAAGGACACGAGAGACACGATGCTAA 180
Db 121 GGAGAAAATTTTGAAGAAGACATTTATTTGATTAAGGACACGAGAGAGACGATGCTAA 180

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Db 961 TTGTTGCTCGATATTTTAAAGCAATCTATCTGCGATGCTTGAGAGAGATACCTGA 1020
Qy 1021 AGATTAGACATGTTGGGAGAGAGCTCACAAATTTACAAACCTGAGATATGTTCCAGT 1080
Db 1021 AGATTAGACATGTTGGGAGAGAGCTCACAAATTTACAAACCTGAGATATGTTCCAGT 1080
Qy 1081 TGTAGAAATTAATCTGTTTACACACATTTTGTTCATATTTATATTTTATCACCACAT 1140
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Qy 1141 TCAAGTTTGTATTTGTTTAAATGAATGATTTTCAAGGAAAAA 1195
Db 1141 TCAAGTTTGTATTTGTTTAAATGAATGATTTTCAAGGAAAAA 1195

RESULT 4
AR564210 1195 bp DNA linear PAT 08-OCT-2004
LOCUS AR564210

	DEFINITION	SEQUENCE	878 FROM PATENT US 6759515.
ACCESSION	AR564210		
VERSION	AR564210.1	GI:53979261	
KEYWORDS			
SOURCE	Unknown.		
ORGANISM	Unknown.		
REFERENCE	Unclassified.		
AUTHORS	1 (bases 1 to 1195) Xu J., Dillon D.C., Mitcham J.L., Harlocker S.L., Jiang Y., Kalos M.D., Fenger G.R., Reiter W.W., Stolk J.A., Day C.H., Vedrick T.S., Carter D., Li S.X., Wang A., Skelley Y.A.W., Hepler W.T. and Henderson R.A. Compositions and methods for the therapy and diagnosis of prostate cancer Patent: US 6759515-A 878 06-JUL-2004; Corixa Corporation; Seattle, WA		
TITLE			
JOURNAL			
FEATURES	source		
ORIGIN			
Query Match	100.0%; Score 1195; DB 6; Length 1195;		
Best Local Similarity	100.0%; Pred. No. 5.5e+28; Mismatches 0; Indels 0; Gaps 0;		
Matches 1195; Conservative	0; Mismatches 0; Indels 0; Gaps 0;		
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DB	61 AATTATGGAAGGCAGAAAAGCATTCACAACCAAGAAATTGGAAAAAGCCCTA	120	
QY	121 GGAGAAATTTAGAAAGACGATTTATTTGTCATPAAGAACACGGGAGAGACACAGTCTPA	180	
DB	121 GGAGAAATTTAGAAAGACGATTTATTTGTCATPAAGAACACGGGAGAGACACAGTCTPA	180	
QY	181 AAAAGACTGTGCTTTTGCAATTGGACCAAACAGGCCATGCTGATGAATTTGACTGCCCTT	240	
DB	181 AAAAGACTGTGCTTTTGCAATTGGACCAAACAGGCCATGCTGATGAATTTGACTGCCCTT	240	
QY	241 CAGAAGCTTCAGACACACAGGAACCTTTCCACAGTGGCACTTGGCAATTAATAAGCTG	300	
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DB	481 TCCAACTTCATPAAGGAACCAAGTATPAAGAGTTTCCAATTGTTGATTAAGTGAATGT	540	
QY	541 TPAACAGAAAGAGATTTGGGCTCTCAGTTCTTTTGGTCTGACTGATGCAATTTTAA	600	
DB	541 TPAACAGAAAGAGATTTGGGCTCTCAGTTCTTTTGGTCTGACTGATGCAATTTTAA	600	
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QY	661 AGCTCCAAACAAATTAAGAAGTGTGCTGATTGACATGATGTTGGAGAAATGAGGATTT	720	
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QY	1021	AGATTGACATGTTTGGGAAGACGCTACCCAAATTTAACAAACGTGATATGTTCCCACT	1080
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QY	1081	TGTGAATTAATCTGTTTACACACATTTTGTTCATATTTGATATATTTTATCACCACATTT	1140
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QY	1141	TCAGTTTGTATTTGTTATATPAAATGATTTATTCAGGAAAAAAAAAAAAAAAAAAAA	1195
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RESULT 5			
AR589196	1195 bp	DNA	linear
LOCUS	AR589196		
DEFINITION	Sequence 878 from patent US 6800746.		
ACCESSION	AR589196		
VERSION	AR589196.1	GI:56636093	
KEYWORDS			
SOURCE	Unknown.		
ORGANISM	Unknown.		
REFERENCE	1 (bases 1 to 1195)		
AUTHORS	Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y., Kalos,M.D., Fanger,G.R., Reterer,M.W., Stolk,U.A., Day,C.H., Vedelick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A.W., Hepler,W.T. and Henderson,R.A.		
TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer		
JOURNAL	Patent: US 6800746-A 878 05-OCT-2004;		
FEATURES	Corixa Corporation; Seattle, WA		
source	Location/Qualifiers		
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	/organism="unknown"		
	/mol_type="genomic DNA"		
ORIGIN			
Query Match	100.0%;	Score 1195;	DB 6;
Best local Similarity	100.0%;	Pred. No. 5.5e-238;	
Matches 1195;	Conservative 0;	Mismatches 0;	Indels 0;
Gaps 0;			
QY	1	CCGAGACTCAGCGGTCAAGCTTAAGCGGAAGGTGGTGGCTGGAACCACTACTATTTTATG	60
Db	1	CCGAGACTCAGCGGTCAAGCTTAAGCGGAAGGTGGTGGCTGGAACCACTACTATTTTATG	60
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Db	61	AATTATATGAAAGCAGAAAAGACATCACAAAACCAAGAAAGACTTTGGAAAAATGAAGCTTA	120
QY	121	GGAGAAATTTGAAGAAAGACGATTTATTTGCTAATAGCAACGGGAGAGAACCAAGCATGCTTA	180
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Db 361 CAATCTCCATCAACAATTTTATTAATTTCAATCTGCTATCAACAAGCTTTCG 420
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RESULT 6
AR654075

LOCUS AR654075 1195 bp DNA linear PAT 13-JUN-2005
DEFINITION Sequence 1 from patent US 6887975.
ACCESSION AR654075
VERSION AR654075.1 GI:67584962
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1195)
AUTHORS Afari, D.E., Hubert, R.S., Leong, K., Raitano, A.B., Saffran, D.C. and Mitchell, S.C.
TITLE Reptiles derived from STEAPI
JOURNAL Patent: US 6887975-A 1 03-MAY-2005;
Agensys, Inc.; Santa Monica, CA
FEATURES
source location/Qualifiers
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/organism="unknown"
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Best Local Similarity 100.0%; Pred. No. 5.5e-238;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 7
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LOCUS AX201105 Sequence 735 from Patent WO0151633.
DEFINITION AX201105
ACCESSION AX201105
VERSION AX201105.1 GI:15390890
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Homidae; Homo.
1
REFERENCE
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Reed,S.G., Kalos,M.D., Fanger,G.R., Day,C.H., Retter,M.W.,
Stolk,J.A., Skeiky,Y.A., Wang,A. and Meagher,M.J.,
TITLE Compositions and methods for the therapy and diagnosis of prostate
cancer
JOURNAL Patent: WO 0151633-A 735 19-JUL-2001;
CORIXA CORPORATION (US)
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Query Match 100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 5.5e-238;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 8
AX267904

LOCUS AX267904 1195 bp DNA linear PAT 26-OCT-2001
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 VERSION AX267904.1 GI:16516522
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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 Homnidae; Homo.
 REFERENCE
 1 Xu, J., Dillon, D. C., Mitcham, J. L., Harlocker, S. L., Jiang, Y.,
 Kelso, M. D., Panger, G. R., Reiter, M. W., Stolk, J. A., Day, C. H.,
 Vedvick, T. S., Carter, D., Li, S. X., Wang, A., Skeiky, Y. A., Hepler, W. T.,
 and Henderson, R. A.
 Compositions and methods for the therapy and diagnosis of prostate
 cancer.
 Patent: WO 0173032-A 878 04-OCT-2001;
 JOURNAL CORIXA CORPORATION (US)
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 Query Match 100.0%; Score 1195; DB 6; Length 1195;
 Best Local Similarity 100.0%; Pred. No. 5.5e-238; Mismatches 0; Indels 0; Gaps 0;
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 ACCSSION AX926483
 VERSION AX926483.1 GI:40246089
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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 Homnidae; Homo.
 REFERENCE
 1 Wang, Y.
 Panel of nucleic acid sequences for cancer diagnosis
 JOURNAL Patent: EP 1351510-A 35 22-OCT-2003;
 Ortho-Clinical Diagnostics, Inc. (US)
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 ORIGIN
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LOCUS	AX951736 Sequence 35 from Patent EP1367138.
DEFINITION	AX951736
ACCESSION	AX951736
VERSION	AX951736.1 GI:40782084
KEYWORDS	.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE	1 Wang, Y. Markers for breast cancer prognosis Patent: EP 1367138-A 35 03-DEC-2003; Ortho Clinical Diagnostics Inc. (US) Location/Qualifiers 1..1195 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
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DB	301 CTATTATAGCATCTGTGACTTTCTTTACACTCTCTGAGGGAATTAATCAACCCCTTAG 360
OY	361 CACTTCCCATCAACATATTTTTTATAAATTCATCTGTGCATCAACAAAGTCTTGC 420
DB	361 CACTTCCCATCAACATATTTTTTATAAATTCATCTGTGCATCAACAAAGTCTTGC 420
OY	421 CAATGGTTCCATCATCTCTTTGGCAATGGTTTACCTGCAGAGSTGATAGCAGCAATTG 480
DB	421 CAATGGTTCCATCATCTCTTTGGCAATGGTTTACCTGCAGAGSTGATAGCAGCAATTG 480
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DB 721 ATGTGTCTGCGGAATTTGGGATTTGGCAATTAAGCTCTGTTGGCTGTGACATCTATTC 780
QY 781 CATCTGTGAGTGAATCTTTGACATGAGAGAAATTTGCTATTAATTCAGAGCAAGCTAGAA 840
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DB 1141 TCAAGTTTGTATTTGTTAATTAATGATTTATTCAGGAGAAAAAATTTTAAAAA 1195

RESULT 11

AX960014 1195 bp DNA linear PAT 14-JAN-2004

LOCUS AX960014
DEFINITION Sequence 35 from Patent EP1349104.
ACCESSION AX960014
VERSION AX960014.1 GI:40880240
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.

REFERENCE
AUTHORS Jatkoe, T.
TITLE Method of selecting a portfolio of markers for use in a diagnostic
application
JOURNAL Patent: EP 1349104-A 35 01-OCT-2003;
FEATURES Ortho-Clinical Diagnostics, Inc. (US)
source 1. 1195
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 5.5e-238;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGAGACTCAGCTCAAGCTTAAGCGAAGAGTGGTGGCTGAAGCCATATCTATTTATAG 60
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RESULT 12
AF186249 1195 bp mRNA linear PRI 14-DEC-1999
LOCUS Homo sapiens six transmembrane epithelial antigen of prostate
DEFINITION (STEAP1) mRNA, complete cds.
ACCESSION AF186249
VERSION AF186249.1 GI:6572947
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 1195)
Hubert,R.S., Vivanco,I., Chen,E., Rastegar,S., Leong,K.,
AUTHORS Mitchell,S.C., Madraswala,R., Zhou,Y., Kuo,D., Raitano,A.B.,
Jakobovits,A., Saffran,D.C. and Afari,D.E.
STEAP: a prostate-specific cell-surface antigen highly expressed in
human prostate tumors
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 96 (25), 14523-14528 (1999)
PUBMED 10588738
TITLE 2 (bases 1 to 1195)
Hubert,R.S., Vivanco,I., Chen,E., Rastegar,S., Leong,K.,
AUTHORS Mitchell,S.C., Madraswala,R., Zhou,Y., Kuo,D., Raitano,A.B.,
Jakobovits,A., Saffran,D.C. and Afari,D.E.H.
Direct Submission
JOURNAL Submitted (14-SEP-1999) UroGeneSys Inc., 1701 Colorado Ave., Santa
Monica, CA 90404, USA
FEATURES
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Location/Qualifiers
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ORIGIN
Query Match 100.0%; Score 1195; DB 8; Length 1195;
Best Local Similarity 100.0%; Pred. No. 5.5e-238;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGCTGTAAGCCATCTATTATTATAG 60
Db 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGCTGTAAGCCATCTATTATTATAG 60
QY 61 AATTATGGAAGCAGAAAAGACATCAACCAAGAAAGAACTTTGAAAATGAAGCTTA 120
Db 61 AATTATGGAAGCAGAAAAGACATCAACCAAGAAAGAACTTTGAAAATGAAGCTTA 120
QY 121 GGAGAAATTTTGAAGAAGACGATATTGATTAAGACACGGAGAGACCGACATGCTAA 180
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RESULT 13
CQ981397 1330 bp DNA linear PAT 25-JAN-2005
LOCUS CQ981397
DEFINITION Sequence 252 from Patent Epi498424.
ACCESSION CQ981397
VERSION CQ981397.1 GI:58190687

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1

AUTHORS Rosenthal, A., Hermann, K., Heiden, E., Pilarek, C., Bruemendorf, T., Straub, E., Roepcke, S., Mennerich, D., Kimmern, H. and Li, X.

TITLE Human nucleic acid sequences from lung tumours

JOURNAL Patent: EP 1498424-A 252 19-JAN-2005;

Hinzmann, Bernd (DE); Hermann, Klaus (DE); Heiden, Esméralda (DE); Rosenthal, Andre (DE)

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location/Qualifiers

1..1330

organism="Homo sapiens"

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/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 1195; DB 6; Length 1330;

Best Local Similarity 100.0%; Pred. No. 5.4e-238; Mismatches 0; Indels 0; Gaps 0;

Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 CCGAGACTCAGCGTCAAGCTAAGCGGAAGAGTGGGTGGCTGAAGCCATATTTATAG 60

136 CCGAGACTCAGCGTCAAGCTAAGCGGAAGAGTGGGTGGCTGAAGCCATATTTATAG 195

61 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAAACCTTTGAAATGAAAGCTTA 120

196 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAAACCTTTGAAATGAAAGCTTA 255

121 GGAGAAATTTAAGAAGAGATTAATTTGCTAAGAGACGGGAGAGACCAAGCATGCTAA 180

256 GGAGAAATTTAAGAAGAGATTAATTTGCTAAGAGACGGGAGAGACCAAGCATGCTAA 315

181 AAAGACCTGTCCTTTTCATTTGACCAAAACAGCCATGCTGATGAAATTTGACCTT 240

316 AAAGACCTGTCCTTTTCATTTGACCAAAACAGCCATGCTGATGAAATTTGACCTT 375

241 CAGAACTTCAGACACACAGGAACCTTTTCCACAGTGGCACTTCCCAATTAATAAGCTG 300

376 CAGAACTTCAGACACACAGGAACCTTTTCCACAGTGGCACTTCCCAATTAATAAGCTG 435

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436 CTATTTATAGATCTCTACCTTTCTTACACTCTTTCAGAGGAGTAATCACCCCTTAG 495

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496 CAACTTCCCATCAACATATTTTATATAAATTCCAATCTGTCATCAACAAAGCTTTGC 555

421 CAATGTTTTCATCACTCTCTTGGCATTTGTTACCTGCGCAAGTGTATAGCAAAATG 480

556 CAATGTTTTCATCACTCTCTTGGCATTTGTTACCTGCGCAAGTGTATAGCAAAATG 615

481 TCGAATCTCAATATGAAACCAAGTAATAAGATTCCAACTGGTGTGATTAAGTGTAT 540

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RESULT 14

CS031875 1330 bp DNA linear PAT 10-MAR-2005

LOCUS CS031875

DEFINITION Sequence 1381 from Patent WO2005016962.

ACCESSION CS031875

VERSION CS031875.1 GI:60731699

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1

AUTHORS Abbas, A., Clark, H., Ouyang, W., Williams, M. P., Wood, W. I. and Wu, T. D.

TITLE Compositions and methods for the treatment of immune related diseases

JOURNAL Patent: WO 2005016962-A 1381 24-FEB-2005;

Genentech, Inc. (US)

FEATURES

source 1..1330

location/Qualifiers

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ORIGIN

Query Match 100.0%; Score 1195; DB 6; Length 1330;

Best Local Similarity 100.0%; Pred. No. 5.4e-238; Mismatches 0; Indels 0; Gaps 0;

Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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136 CCGAGACTCAGCGTCAAGCTAAGCGGAAGAGTGGGTGGCTGAAGCCATATTTATAG 195

61 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAAACCTTTGAAATGAAAGCTTA 120

196 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAAACCTTTGAAATGAAAGCTTA 255

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LOCUS CS036259 Sequence 5765 from Patent WO2005016962.

ACCESSION CS036259
VERSION CS036259.1 GI:60733938
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
REFERENCE
1 Abbas, A., Clark, H., Ouyang, W., Williams, M.P., Wood, W.I. and Wu, T.D.
Abbas, A., Clark, H., Ouyang, W., Williams, M.P., Wood, W.I. and Wu, T.D.
Compositions and methods for the treatment of immune related
diseases
JOURNAL Patent: WO 2005016962-A 5765 24-FEB-2005;
Genentech, Inc. (US)
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	39.2	3.3	1779	6 US-10-750-185-25365	Sequence 25365, A
3	39	3.3	2464	6 US-10-750-185-59315	Sequence 39315, A
4	38.6	3.2	2133	6 US-10-750-185-26044	Sequence 26044, A
5	38.6	3.2	319608	7 US-11-145-703-1	Sequence 1, Appl1
6	37.6	3.1	1301	6 US-10-750-185-36894	Sequence 36894, A
7	37.4	3.1	1443	6 US-10-750-185-57750	Sequence 57750, A
8	37	3.1	1495	6 US-10-750-185-52077	Sequence 52077, A
9	37	3.1	1798	6 US-10-750-185-51935	Sequence 51935, A
10	36.8	3.1	1835	6 US-10-750-185-46765	Sequence 46765, A
11	36.8	3.1	2081	6 US-10-750-185-51383	Sequence 51383, A
12	36.6	3.1	1620	6 US-10-750-185-52737	Sequence 52737, A
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14	36.2	3.0	1577	6 US-10-750-185-45671	Sequence 45671, A
15	36.2	3.0	1978	6 US-10-750-185-42808	Sequence 42808, A
16	36.2	3.0	2120	6 US-10-689-742-163	Sequence 163, App
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21	35.8	3.0	1458	6 US-10-821-234-142	Sequence 142, App
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40	34.4	2.9	166111	7 US-11-112-908-47	Sequence 47, Appl1
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ALIGNMENTS

RESULT 1
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; Sequence 59979, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: PANTIN, Dennis
; TITLE OR INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750.185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 59979
; LENGTH: 1687
; TYPE: DNA
; ORGANISM: Bovine 1986680802008
US-10-750-185-59979

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Best Local Similarity 55.9%; Pred. No. 1.3;
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; Sequence 25365, Application US/10750185

Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFIELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFE
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: Patent version 3.1
SEQ ID NO 25365
LENGTH: 1779
TYPE: DNA
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US-10-750-185-25365

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? Sequence 39315, Application US/10750185
? Publication No. US2005026063A1
? GENERAL INFORMATION:
?   APPLICANT: MMI GENOMICS, INC.
?   APPLICANT: DENISE, Sue K.
?   APPLICANT: KERR, Richard
?   APPLICANT: ROSENFELD, David
?   APPLICANT: HOLM, Tom
?   APPLICANT: BATES, Stephen
?   APPLICANT: FANTIN, Dennis
?   TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
?   FILE REFERENCE: M711100-2
?   CURRENT APPLICATION NUMBER: US/10/750,185
?   CURRENT FILING DATE: 2003-12-31
?   PRIOR APPLICATION NUMBER: US 60/437,482
?   PRIOR FILING DATE: 2002-12-31
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?   SOFTWARE: PatentIn version 3.1
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US-10-750-185-39315
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Sequence 26044, Application US/10750185
Publication NO. US2005026063A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: Mmil100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 26044
LENGTH: 2133
TYPE: DNA
ORGANISM: Bovine
US-10-750-185-26044 19866880786954

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US-11-145-703-1/c
Sequence 1, Application US/1145703
Publication No. US2005026067A1
GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya

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APPLICANT: Bougueleret, Lydie
APPLICANT: Binaud, Bernard
APPLICANT: Essioux, Laurent
TITLE OF INVENTION: SCHIZOPHRENIA ASSOCIATED GENES, PROTEINS AND BIALLERIC MARKERS
FILE REFERENCE: 53.US16.DIV
CURRENT APPLICATION NUMBER: US/11/145,703
CURRENT FILING DATE: 2000-03-30
PRIORITY APPLICATION NUMBER: US/10/147,603
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PRIORITY APPLICATION NUMBER: US 60/132,065
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PRIORITY APPLICATION NUMBER: US 60/143,928
PRIORITY FILING DATE: 1999-07-14
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PRIORITY FILING DATE: 1999-07-27
PRIORITY APPLICATION NUMBER: US 60/146,453
PRIORITY FILING DATE: 1999-07-29
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PRIORITY APPLICATION NUMBER: US 60/162,288
PRIORITY FILING DATE: 1999-10-28
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SOFTWARE: Patent.pm
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OTHER INFORMATION: exon A g35018 gene
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/ FEATURE:
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Query Match 3.2%; Score 38.6; DB 7; Length 319608;

Best Local Similarity 48.1%; Pred. No. 25; Matches 139; Conservative 0; Mismatches 149; Indels 1; Gaps 1;

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QY 905 AAAACAATTGGTATGATACACCTCCAACTTTTATGATAGCTGTTTCCCTCCATGT 964
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DB 13082 AAACCAACTGTATGTTTCTTTTCAGTGAAGTTATGTCTTTTAAATCACAATTG 13023
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 965 TGTCCTGATATTTAAAGCACTACTATTCCTGCCATGCTTGGAAGAAGATACGAAGAT 1024
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 13022 TGGAAATATGTATGATATATACATATCATATATATATATATATATATATAT 12963
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1025 TAGCATGTTGGAGACGTCACCAAAATTAACMAAATGAGATATGTTCCAGTTGTA 1084
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DB 12962 AAATTATATATATATATATATATATATATATATATATATATATATATATAT 12903
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QY 1085 GAATTAAGTTTACACACATTTTGTCAATATGATATATTTATACCAACATTTCAA 1144
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DB 12902 TATATATATATATA-ATATATATATATATATATATATATATATATATATACCAATT 12844
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QY 1145 GTTGTATTTGTATATATATATATATATATATATATATATATATATATATATAT 1193
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DB 12843 TTATATATATATATATATATATATATATATATATATATATATATATATAA 12795
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RESULT 6
US-10-750-185-36894/c
; Sequence 36894, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36894
; LENGTH: 1301
; TYPE: DNA
; ORGANISM: Bovine 19866881016886
US-10-750-185-36894
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Query Match 3.1%; Score 37.6; DB 6; Length 1301;

Best Local Similarity 61.0%; Pred. No. 4.6; Matches 61; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

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DB 851 TCAGACATTTTAAATCTCCAAATGTGTTGTGTTTAAATCTCCCAAGATTGTCTCT 792
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QY 1156 TTTATTAATGATTTATTCAGCAAGAAAAAATTTTAAAAA 1195
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DB 791 TGTTCGAAGTATATATCACACAAAAAATTTTAAAAA 752
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RESULT 7

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US-10-750-185-57750
; Sequence 57750, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
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; LENGTH: 1443
; TYPE: DNA
; ORGANISM: Bovine 19866881229395
US-10-750-185-57750
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Query Match 3.1%; Score 37.4; DB 6; Length 1443;

Best Local Similarity 48.4%; Pred. No. 5.3; Matches 104; Conservative 0; Mismatches 111; Indels 0; Gaps 0;

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QY 980 AACGATACATTTCCGCCATGCTTGGAAGAAGATACGAAGATTTAGACATGTTGGGA 1039
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DB 50 AACCTAAGTCTCATGACAGATGAACAGATTAAGAAATGTGGAANAACATACATGGA 109
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Best Local Similarity 50.3%; Pred. No. 11;
Matches 89; Conservative 0; Mismatches 88; Indels 0; Gaps 0;

1012 AGATACTGAAGATTAGACATGGTTGGGAGACGTCACCAAAATTAAACAACCTGAGATAT 1071

Db 922 AGGCACTTATATTAAATTTTGTACAAAGTACAAATTATGACCAAAATTAAAAAGTAA 981

QY 1072 GTTCCAGTTGTAGAATTACTGTTACACACATTTTGTTCATATTGATATTTTATC 1131

Db 982 ACAAAAATATTAGAGTTATATGTAGAAACAAAGGTGGAAGCTCTTATATATATATAT 1041

1132 ACCAACATTTCAGTTTGTATTGTTAATAAATGATTATTC AAGGAAAAA 1188

Db 1042 ATATATATATAATTATATTTACTAAATAAAATGAGTACATAAAGAAAAAGTAAA 1098

RESULT 15

US-10-750-185-42808/c

Sequence 42808, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION

ADDITIONAL INFORMATION: TWO

APPLICANT: MMI GENOMICS, INC.

APPLICANT: DENISE, Sue K.

APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, Day

APPLICANT: ROSENFELD, DAVID
APPLICANT: HOLM, TOM

APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen

APPLICANT: FANTIN, Dennis

; TITLE OF INVENTION: COMPOS

FILE REFERENCE: MM1100-2

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; CURRENT FILING DATE: 200

PRIOR APPLICATION NUMBER: US 60/437,482

NUMBER OF SEC ID NOS: 64633
PRIOR FILING DATE: 2002-12-31

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; NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIN version 3.1

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; SOFTWARE: PatentIn version 3.
: SEO ID NO 42808

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; SEQ ID NO 42808
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; LENGTH: 1978

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LENGTH: 1976
TYPE: DNA

ORGANISM: BOV

US-10-750-185-42

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Best Local Simila

Matches 74; Conservative 0; Mismatches 43; Indels 2

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QY 1137 CATTCAAGTTGTATTGTTAATAAATGATTATTCAGGAAAAAAAA 1195

Db 1509 CAATAGGGAATTTCAATTGTTAAGAGCTTATTTTGGCAGAGCAAAAAAAAAA 1451

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Job time : 379.544 secs

Job time : 379.544 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 4, 2005, 20:43:36 : Search time 238.244 Seconds
(without alignments)
8916.024 Million cell updates/sec

Title: US-10-750-262-1

Perfect score: 1195

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Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 2606114

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1195	100.0	1195	3	US-09-323-873A-1
2	1195	100.0	1195	3	US-09-685-166A-878
3	1195	100.0	1195	3	US-09-679-426-878
4	1195	100.0	1195	3	US-09-759-143-878
5	1195	100.0	1195	3	US-10-010-667A-1
6	1195	100.0	1195	3	US-10-012-896-878
7	1193	99.8	1193	3	US-09-455-486-1
8	1143.4	95.7	1147	3	US-09-948-016-2686
9	825.6	69.1	3627	3	US-09-323-873A-6
10	825.6	69.1	3627	3	US-09-455-486-4
11	825.6	69.1	3627	3	US-10-010-667A-6
12	581	48.6	592	3	US-09-439-313-342
13	581	48.6	592	3	US-09-352-616A-342
14	581	48.6	592	3	US-09-636-215-342
15	581	48.6	592	3	US-09-685-166A-342
16	581	48.6	592	3	US-09-679-426-342
17	581	48.6	592	3	US-09-759-143-342
18	581	48.6	592	3	US-09-651-236-342
19	581	48.6	592	3	US-09-657-279-342
20	581	48.6	592	3	US-10-012-896-342
21	515.6	43.1	9073	3	US-09-948-016-14428
22	360.6	30.2	455	3	US-09-621-976-9264
23	266.6	22.3	2453	3	US-09-455-486-5
24	266.6	22.3	2469	3	US-10-104-047-1185

25	265	22.2	1403	3	US-10-012-896-995	Sequence 995, App
26	229.6	19.2	848	3	US-10-012-896-993	Sequence 993, App
27	221.4	18.5	519	3	US-10-010-667A-7	Sequence 7, Appli
28	221.4	18.5	521	3	US-09-323-873A-7	Sequence 7, Appli
29	212.8	17.8	2714	3	US-09-562-930-5	Sequence 5, Appli
30	212.8	17.8	3884	3	US-09-562-930-10	Sequence 10, Appli
31	187.4	15.7	4429	3	US-09-455-486-7	Sequence 7, Appli
32	184.8	15.5	1213	3	US-09-083-521-3	Sequence 3, Appli
33	171	14.3	1886	3	US-09-562-930-1	Sequence 1, Appli
34	166.6	13.9	1203	3	US-09-544-618-6	Sequence 6, Appli
35	162.4	13.6	366	3	US-09-030-607-215	Sequence 215, App
36	162.4	13.6	366	3	US-09-439-313-215	Sequence 215, App
37	162.4	13.6	366	3	US-09-352-616A-215	Sequence 215, App
38	162.4	13.6	366	3	US-09-232-149A-215	Sequence 215, App
39	162.4	13.6	366	3	US-09-159-812-215	Sequence 215, App
40	162.4	13.6	366	3	US-09-636-215-215	Sequence 215, App
41	162.4	13.6	366	3	US-09-685-166A-215	Sequence 215, App
42	162.4	13.6	366	3	US-09-115-453-215	Sequence 215, App
43	162.4	13.6	366	3	US-09-688-489-215	Sequence 215, App
44	162.4	13.6	366	3	US-09-679-426-215	Sequence 215, App
45	162.4	13.6	366	3	US-09-759-143-215	Sequence 215, App

ALIGNMENTS

RESULT 1									
US-09-323-873A-1									
Sequence 1, Application US/09323873A									
Patent No. 6329503									
GENERAL INFORMATION:									
APPLICANT: Daniel E. Afar									
APPLICANT: Rene S. Hubert									
APPLICANT: Kahana Leong									
APPLICANT: Arthur B. Raitano									
APPLICANT: Douglas C. Saifman									
APPLICANT: Steve Chappell Mitchell									
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS									
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF									
FILE REFERENCE: 129.16USU2									
CURRENT APPLICATION NUMBER: US/09/323,873A									
CURRENT FILING DATE: 1999-06-01									
PRIOR APPLICATION NUMBER: 60/087,520									
PRIOR FILING DATE: 1998-06-01									
PRIOR APPLICATION NUMBER: 60/091,183									
PRIOR FILING DATE: 1998-06-30									
NUMBER OF SEQ ID NOS: 32									
SOFTWARE: FastSeq for Windows Version 4.0									
SEQ ID NO 1									
LENGTH: 1195									
TYPE: DNA									
ORGANISM: Homo Sapiens									
US-09-323-873A-1									
Query Match									
Best Local Similarity 100.0%; Score 1195; DB 3; Length 1195;									
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	CCGAGACTCAGCGTCAAGCTTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATG	60						
Db	1	CCGAGACTCAGCGTCAAGCTTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATG	60						
Qy	61	AATTAATGAAG	120						
Db	61	AATTAATGAAG	120						
Qy	121	GGAGAAATTTAG	180						
Db	121	GGAGAAATTTAG	180						
Qy	181	AAAGACCTGCTGCTTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT	240						
Db	181	AAAGACCTGCTGCTTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT	240						

Db 601 GTCTGCTTACCCATGAGCGCATCTACAGATCAAGTTGCTAACTGGGCATATCAAC 660
Qy 661 AGGTCCAAACAATTAAGAAGATGCTGGATTTGAGCATGATGTTGGAGATGAGATT 720
Db 661 AGGTCCAAACAATTAAGAAGATGCTGGATTTGAGCATGATGTTGGAGATGAGATT 720
Qy 721 ATGTGCTCTGGGAATTTGGGAATTTGGCAATAGCTGCTGTTGGCTGTGACATCTATTC 780
Db 721 ATGTGCTCTGGGAATTTGGGAATTTGGCAATAGCTGCTGTTGGCTGTGACATCTATTC 780
Qy 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAAGCAAGTACGAA 840
Db 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAAGCAAGTACGAA 840
Qy 841 TTGTTCCCTTCTACCTGGGCAATACACGATGATTTTGGCTGGAAATAGTGAATAG 900
Db 841 TTGTTCCCTTCTACCTGGGCAATACACGATGATTTTGGCTGGAAATAGTGAATAG 900
Qy 901 ATATAAACAATTTGTATGTATACCTCCAACTTTATGATAGCTGTTTCTTCCAA 960
Db 901 ATATAAACAATTTGTATGTATACCTCCAACTTTATGATAGCTGTTTCTTCCAA 960
Qy 961 TTGTTGCTGTATATTTAAAGCATACTATTCCTGCCATGCTGAGGAAGAACTACTGA 1020
Db 961 TTGTTGCTGTATATTTAAAGCATACTATTCCTGCCATGCTGAGGAAGAACTACTGA 1020
Qy 1021 AGATTAAACATGCTTGGGAAGACGTCAACCAAAATTAACAAACCTGAGATAGTCCAGT 1080
Db 1021 AGATTAAACATGCTTGGGAAGACGTCAACCAAAATTAACAAACCTGAGATAGTCCAGT 1080
Qy 1081 TGTGATTAATCTGTTTACACACATTTTGTTCATATTTATGATATTTTATCACCACAT 1140
Db 1081 TGTGATTAATCTGTTTACACACATTTTGTTCATATTTATGATATTTTATCACCACAT 1140
Qy 1141 TCAAGTTTGTATTTGTTATTAATTAATGATTTTCAAGAAAAAATTTTAAAAA 1195
Db 1141 TCAAGTTTGTATTTGTTATTAATTAATGATTTTCAAGAAAAAATTTTAAAAA 1195

RESULT 3
US-09-679-426-878
Sequence 878, Application US/09679426
Patent No. 6759515
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Patrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hegler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C20
CURRENT APPLICATION NUMBER: US/09/679,426
NUMBER OF SEQ ID NOS: 895
SOFTWARE: FaastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens

US-09-679-426-878
Query Match 100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 6 6e-301;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 CGAGACTCAGGTCAGCTTAAGCGAAGAGTGGTGGCTGAAGCCATATTTATATAG 60
Qy 61 AATTAATGAAGACAGAAAAAGACATACAAACCAAGAAACCTTGGAAAAATGAACCTA 120
Db 61 AATTAATGAAGACAGAAAAAGACATACAAACCAAGAAACCTTGGAAAAATGAACCTA 120
Qy 121 GGAGAAATTTAAGAAAGACGATTAATTTGCTAAGGACACGAGAGAGACCAAGATCTAA 180
Db 121 GGAGAAATTTAAGAAAGACGATTAATTTGCTAAGGACACGAGAGACCAAGATCTAA 180
Qy 181 AAGACCTGTCTTTTGATTTGCACTTTCACCAACAGCCCATGCTGATGAATTTGACCTCT 240
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Qy 241 CAGAACTTCAGCACACAGAACTCTTTCACAGTGGCACTTGCCAAATTAATAGCTG 300
Db 241 CAGAACTTCAGCACACAGAACTCTTTCACAGTGGCACTTGCCAAATTAATAGCTG 300
Qy 301 CTATTAATGATCTGACTTTTCTTTACACTCTTCTGAGGGAATTAATCACCTTTAG 360
Db 301 CTATTAATGATCTGACTTTTCTTTACACTCTTCTGAGGGAATTAATCACCTTTAG 360
Qy 361 CAACCTCCATCAACAATATTTTAAATTCCAATCTGATCATCAACAAAGCTTGC 420
Db 361 CAACCTCCATCAACAATATTTTAAATTCCAATCTGATCATCAACAAAGCTTGC 420
Qy 421 CAATGGTTTCATCATCTCTTGGCATGTGTTTACCTGCCAGGTGATGACGCAATTG 480
Db 421 CAATGGTTTCATCATCTCTTGGCATGTGTTTACCTGCCAGGTGATGACGCAATTG 480
Qy 481 TCCAACTTCAATATGAGAACCAAGTATAGAAATTTTCACTGGTGGATTAAGTGAATG 540
Db 481 TCCAACTTCAATATGAGAACCAAGTATAGAAATTTTCACTGGTGGATTAAGTGAATG 540
Qy 541 TAAACAAGAAAGCAATTTGGCTTCTCAGTTTCTTTTGTGCTACTGATGCAATTTATA 600
Db 541 TAAACAAGAAAGCAATTTGGCTTCTCAGTTTCTTTTGTGCTACTGATGCAATTTATA 600
Qy 601 GTCTGCTTACCAATGAGCGATCTTAAGATCAAGTTGCTAAACTGGCATATCAAC 660
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Qy 721 ATGTGCTCTGGGAATTTGGGAATTTGGCAATAGCTGCTGTTGGCTGTGACATCTATTC 780
Db 721 ATGTGCTCTGGGAATTTGGGAATTTGGCAATAGCTGCTGTTGGCTGTGACATCTATTC 780
Qy 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAAGCAAGTACGAA 840
Db 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAAGCAAGTACGAA 840
Qy 841 TTGTTCCCTTCTACCTGGGCAATACACGATGATTTTGGCTGGAAATAGTGAATAG 900
Db 841 TTGTTCCCTTCTACCTGGGCAATACACGATGATTTTGGCTGGAAATAGTGAATAG 900
Qy 901 ATATAAACAATTTGTATGTATACCTCCAACTTTATGATAGCTGTTTCTTCCAA 960
Db 901 ATATAAACAATTTGTATGTATACCTCCAACTTTATGATAGCTGTTTCTTCCAA 960
Qy 961 TTGTTGCTGTATATTTAAAGCATACTATTCCTGCCATGCTTGAAGAAAGAACTACTGA 1020
Db 961 TTGTTGCTGTATATTTAAAGCATACTATTCCTGCCATGCTTGAAGAAAGAACTACTGA 1020

QY	1021	AGATTAGACATGCTGGGAGACGTCACCAAAATTACAAAACAGATATGTTCCAGT	1080
Db	1021	AGATTAGACATGCTGGGAGACGTCACCAAAATTACAAAACAGATATGTTCCAGT	1080
QY	1081	TGTGAATTACGTTTACACACATTTTGTCAATATGATATATTTTATCCACAATT	1140
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QY	1141	TCAGTTTGTATTGTATAAATGATTATTCAGAGAAAAAATTTTTTTTTT	1195
Db	1141	TCAGTTTGTATTGTATAAATGATTATTCAGAGAAAAAATTTTTTTTTT	1195

RESULT 4
US-09-759-143-878

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: Sequence 878, Application US/09759143
: Patent No. 6800746
:
: GENERAL INFORMATION:
:
: APPLICANT: Xu, Jianguan
: APPLICANT: Dillon, Devin C.
: APPLICANT: Mitcham, Jennifer L.
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Jiang, Yugu
: APPLICANT: Henderson, Robert A.
: APPLICANT: Kalos, Michael D.
: APPLICANT: Fanger, Gary R.
: APPLICANT: Retter, Marc W.
: APPLICANT: Stolk, John A.
: APPLICANT: Day, Craig H.
: APPLICANT: Vedwick, Thomas S.
: APPLICANT: Carter, Darrick
: APPLICANT: Li, Samuel
: APPLICANT: Wang, Aijun
: APPLICANT: Skeiky, Yasir A.W.
: APPLICANT: Hepler, William
:
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
: FILE REFERENCE: 210121.427C23
: CURRENT APPLICATION NUMBER: US/09/759,143
: CURRENT FILING DATE: 2001-01-12
: NUMBER OF SEQ ID NOS: 934
: SOFTWARE: PasteSeq for Windows Version 3.0
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: SEQ ID NO 878
:
: LENGTH: 1195
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: TYPE: DNA
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: ORGANISM: Homo sapiens
:
: US-09-759-143-878

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Query Match	100.0%;	Score 1195;	DB 3;	Length 1195;
Best Local Similarity	100.0%;	Pred. No. 6.6e-301;		
Matches 1195;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Qy	61	AATTATG	AAAGCA	GAAGA	CATGACA	CAACCA	AAAGAACTT	TGGAAAA	TGAAGCTTA	120
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Qy	121	GGAGAAATTTT	AGAGAG	ACGATTTATTT	TGCTATTA	AGGACAC	GGGAGAGAC	CGATGCTTA		180
Db	121	GGAGAAATTTT	AGAGAG	ACGATTTATTT	TGCTATTA	AGGACAC	GGGAGAGAC	CGATGCTTA		180
Qy	181	AAAGACTGTGCTTTT	TGCACTTTTG	CAACCAAC	AGCCCATG	CTGATGA	ATTTGA	CTGCCCTT		240
Db	181	AAAGACTGTGCTTTT	TGCACTTTTG	CAACCAAC	AGCCCATG	CTGATGA	ATTTGA	CTGCCCTT		240
Qy	241	CAGAACTTC	AGACAC	ACAGAACTCTTTT	CCACAGTGG	CACTTGGCA	ATTTAAAT	TAGCTG		300
Db	241	CAGAACTTC	AGACAC	ACAGAACTCTTTT	CCACAGTGG	CACTTGGCA	ATTTAAAT	TAGCTG		300

QY	301	CAATTAATAGCAATCTGACTTTTCTTTTACACTCTTGTGAGGAAAGTAATTCACCCCTTGA	360
Db	301	CTATTATAGCACTCTGACTTTTCTTTACACTCTTGTGAGGAAAGTAATTCACCCCTTGA	360
QY	361	CAACTTCCCATCAACAATATTTTATTAATAATCCAACTCTGGTCATCAACAAAGCTCTGC	420
Db	361	CAACTTCCCATCAACAATATTTTATTAATAATCCAACTCTGGTCATCAACAAAGCTCTGC	420
QY	421	CAATGGTTTCCATCTCTCTTGGCATTTGGTTTACCCTGCAGSTGTGATAGCAGCAATTG	480
Db	421	CAATGGTTTCCATCTCTCTTGGCATTTGGTTTACCCTGCAGSTGTGATAGCAGCAATTG	480
QY	481	TCCAACTTCATATATGGAACCAAGATTAAGAAGTTTCCAACTGGTTGATTAAGTGATGT	540
Db	481	TCCAACTTCATATATGGAACCAAGATTAAGAAGTTTCCAACTGGTTGATTAAGTGATGT	540
QY	541	TAAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTACTGCATGCAATTTATA	600
Db	541	TAAACAAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTACTGCATGCAATTTATA	600
QY	601	GTCTGTCTTACCCAAATGAGGGGATCTCTACAGTAAAGTGTAACTGGGGCATATCAAC	660
Db	601	GTCTGTCTTACCCAAATGAGGGGATCTCTACAGTAAAGTGTAACTGGGGCATATCAAC	660
QY	661	AGGTCCAACAAAATTAAGAAGATGCTGGAATTGAGCATGATGTTTGGAAATGAGATTT	720
Db	661	AGGTCCAACAAAATTAAGAAGATGCTGGAATTGAGCATGATGTTTGGAAATGAGATTT	720
QY	721	ATGTGTCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGTGACATCTATTTC	780
Db	721	ATGTGTCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGTGACATCTATTTC	780
QY	781	CATCTGTAGTGAACCTTTTGACATGAGAGAAATTCATATATTTACAGACAGCTTAGGA	840
Db	781	CATCTGTAGTGAACCTTTTGACATGAGAGAAATTCATATATTTACAGACAGCTTAGGA	840
QY	841	TTGTTTCCCTTCTACTGGGCAACAATACACGATTTGATTTTGGCTGGAAATTAAGTGATAG	900
Db	841	TTGTTTCCCTTCTACTGGGCAACAATACACGATTTGATTTTGGCTGGAAATTAAGTGATAG	900
QY	901	ATATTAACAATTTTGTATGTATACCTCCCAACTTTATATGATACTGTTTTTCCCTTCCAA	960
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QY	961	TTGTTTCTCTATATTTTAAAGCACTATTCTGTCCCATGCTTGGAGAAAGATACCTGA	1020
Db	961	TTGTTTCTCTATATTTTAAAGCACTATTCTGTCCCATGCTTGGAGAAAGATACCTGA	1020
QY	1021	AGATTAGCATGTGTTGGGAAGACGACACCAAAATTAACAAAACCTGATATGTTCCCACT	1080
Db	1021	AGATTAGCATGTGTTGGGAAGACGACACCAAAATTAACAAAACCTGATATGTTCCCACT	1080
QY	1081	TGTGAATATTAACGTTTATACACATTTTGTTCATCAATTTGATATTTTATACCAACATTT	1140
Db	1081	TGTGAATATTAACGTTTATACACATTTTGTTCATCAATTTGATATTTTATACCAACATTT	1140
QY	1141	TCAAAGTTTGATTTGTTAATTAATAATGATTAATTCAGAGAAAAAATTTTAAAAA	1195
Db	1141	TCAAAGTTTGATTTGTTAATTAATAATGATTAATTCAGAGAAAAAATTTTAAAAA	1195

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RESULT 5
US-10-010-667A-1
; Sequence 1, Application US/10010667A
; Patent No. 6887975
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Hubert, Rene S.
; APPLICANT: Leong, Kahan
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Salfran, Douglas C.
; APPLICANT: Mitchell, Steve Chappell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGEN

```

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; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 511582001601
; CURRENT APPLICATION NUMBER: US/10/010,667A
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-010-667A-1

Query Match      100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 6,6e-301;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCGAGCTCAGCGTCAAGTAAAGCGAAGAGTGGGTGGCTGAAGCCATCTATTATAG 60
DB      1 CCGAGCTCAGCGTCAAGTAAAGCGAAGAGTGGGTGGCTGAAGCCATCTATTATAG 60
QY      61 AATTAATGAAAGCAGAAAAAGACATCAAAACCAAGAACTTTGAAATAGAGCTTA 120
DB      61 AATTAATGAAAGCAGAAAAAGACATCAAAACCAAGAACTTTGAAATAGAGCTTA 120
QY      121 GGAGAAATTTAGAGAGAGATTTATTTGATTAAGACACGGAGAGACAGCATCTTA 180
DB      121 GGAGAAATTTAGAGAGAGATTTATTTGATTAAGACACGGAGAGACAGCATCTTA 180
QY      181 AAAAGCTGTGCTTTTGATTTGACCAAAAGCCCATCTGATGATTTGACTGCTT 240
DB      181 AAAAGCTGTGCTTTTGATTTGACCAAAAGCCCATCTGATGATTTGACTGCTT 240
QY      241 CAGAACTTCAGACACAGAGAACTTTTCCACAGTGGAGCATTTGCCAATTAATAGCTG 300
DB      241 CAGAACTTCAGACACAGAGAACTTTTCCACAGTGGAGCATTTGCCAATTAATAGCTG 300
QY      301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGAGATTAATTCACCCCTTTAG 360
DB      301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGAGATTAATTCACCCCTTTAG 360
QY      361 CAACCTCCCATCAACAATTTTTTTTATTAATTCATCTCTGATCAACAAGTCTTGC 420
DB      361 CAACCTCCCATCAACAATTTTTTTTATTAATTCATCTCTGATCAACAAGTCTTGC 420
QY      421 CAATGATTTCCATCACTCTCTTGAGATGGTTTACCTGTCAGGTGATAGAGCAATTG 480
DB      421 CAATGATTTCCATCACTCTCTTGAGATGGTTTACCTGTCAGGTGATAGAGCAATTG 480
QY      481 TCCAACTTCATTAATGGAACCAAGTATTAAGAGTTTCCACATTTGTTGATTAAGTGAATG 540
DB      481 TCCAACTTCATTAATGGAACCAAGTATTAAGAGTTTCCACATTTGTTGATTAAGTGAATG 540
QY      541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTGTCTGCTACTGCAATTTTATA 600
DB      541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTGTCTGCTACTGCAATTTTATA 600
QY      601 GTCTGCTTACCAATGAGGCGATCTCTACAGATCAAGTTGTCTAAAGTGGGATATTCAC 660
DB      601 GTCTGCTTACCAATGAGGCGATCTCTACAGATCAAGTTGTCTAAAGTGGGATATTCAC 660
QY      661 AGGTCCAACAAAATTAAGAGATGCTGATTTAGACATGATGTTTGAAGATGAGATTT 720
DB      661 AGGTCCAACAAAATTAAGAGATGCTGATTTAGACATGATGTTTGAAGATGAGATTT 720
QY      721 ATGTCTCTCTGGGAATTTGTGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTC 780
DB      721 ATGTCTCTCTGGGAATTTGTGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTC 780
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QY      781 CATCTGAGTGAATCTTTTGAATGAGAGAAATTTCACTATATTGAGAGAGCTAGGA 840
DB      781 CATCTGAGTGAATCTTTTGAATGAGAGAAATTTCACTATATTGAGAGAGCTAGGA 840
QY      841 TTGTTTCCCTTCTACTGGGACAAATACAGCATTTGTTTCTGTTGAAATGATGATAG 900
DB      841 TTGTTTCCCTTCTACTGGGACAAATACAGCATTTGTTTCTGTTGAAATGATGATAG 900
QY      901 ATATTAACAAATTTGATGATGATATACACCTCCCACTTTATGATGTTTCTTCCAA 960
DB      901 ATATTAACAAATTTGATGATGATATACACCTCCCACTTTATGATGTTTCTTCCAA 960
QY      961 TTGTTGCTGATATTTAAAGCATATCTTTCTGTCATCTTTGAGAGAAAGATCTGA 1020
DB      961 TTGTTGCTGATATTTAAAGCATATCTTTCTGTCATCTTTGAGAGAAAGATCTGA 1020
QY      1021 AGATTAGACATGTTGGGAGAGAGTCCACCAAAATTAACAAACGATATGTTCCACT 1080
DB      1021 AGATTAGACATGTTGGGAGAGAGTCCACCAAAATTAACAAACGATATGTTCCACT 1080
QY      1081 TGATGAATTAATCTTTTACACATTTTGTTCATATTTGATATTTTATTCACCAACT 1140
DB      1081 TGATGAATTAATCTTTTACACATTTTGTTCATATTTGATATTTTATTCACCAACT 1140
QY      1141 TCAAGTTTGTATTTGTTAATAAATGATTTCAAGAAAAA 1195
DB      1141 TCAAGTTTGTATTTGTTAATAAATGATTTCAAGAAAAA 1195
```

```

RESULT 6
US-10-012-896-878
; Sequence 878, Application US/10012896
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, David C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Carter, Darick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aljun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepner, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hurel, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Baseols, Carlotca
; APPLICANT: Foy, Teresa
; APPLICANT: Panger, Gary R.
; APPLICANT: Mantanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-012-896-878

Query Match      100.0%; Score 1195; DB 3; Length 1195;
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Best Local Similarity 100.0%; Pred. No. 6,6e-301;
Matches 1193; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CCGAGACTCAGGTCAAGCTTAAGCGAAAGATGGGTGCTGAAGCCATCATTTTATAG 60
Db 1 CCGAGACTCAGGTCAAGCTTAAGCGAAAGATGGGTGCTGAAGCCATCATTTTATAG 60
QY 61 AATTAAAGAAAGAGAAAGAAAGATCAAAACCAAGAAAGATTGGAAATGAAGCTTA 120
Db 61 AATTAAAGAAAGAGAAAGAAAGATCAAAACCAAGAAAGATTGGAAATGAAGCTTA 120
QY 121 GGAGAAATTTAGAAAGAGACATTAATTGCAATAAGGACAGGAGAGACAGCATGCTAA 180
Db 121 GGAGAAATTTAGAAAGAGACATTAATTGCAATAAGGACAGGAGAGACAGCATGCTAA 180
QY 181 AAAAGACCTGCTTTTGGATTGGACCAAGCCCATGCTGAAGAAATTTGACGCCCTT 240
Db 181 AAAAGACCTGCTTTTGGATTGGACCAAGCCCATGCTGAAGAAATTTGACGCCCTT 240
QY 241 CAGAACTTCAGACACACAGAACTCTTCCAGAGTGCACTTGCCAAATTAAGCTG 300
Db 241 CAGAACTTCAGACACACAGAACTCTTCCAGAGTGCACTTGCCAAATTAAGCTG 300
QY 301 CTATTATAGCATCTCTGACTTTCTTTACACTCTTTGAGGGAGTAATTCACCTTTAG 360
Db 301 CTATTATAGCATCTCTGACTTTCTTTACACTCTTTGAGGGAGTAATTCACCTTTAG 360
QY 361 CAATCTCCATCAACAATTTTAAATTCGAATCTGGTCAATCAACAAAGTCTGC 420
Db 361 CAATCTCCATCAACAATTTTAAATTCGAATCTGGTCAATCAACAAAGTCTGC 420
QY 421 CAATGCTTCAATCACTCTCTGGGATGGTTTACCTGCAAGTGATAGCAGCAATG 480
Db 421 CAATGCTTCAATCACTCTCTGGGATGGTTTACCTGCAAGTGATAGCAGCAATG 480
QY 481 TCCAATCTCATATGGAACCAAGTAATAAGATTTCCAGATTTGGATTAAGTGAT 540
Db 481 TCCAATCTCATATGGAACCAAGTAATAAGATTTCCAGATTTGGATTAAGTGAT 540
QY 541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTCTTTTGGCTGACTGCAATTTTAA 600
Db 541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTCTTTTGGCTGACTGCAATTTTAA 600
QY 601 GTCGTCTTACCAATGAGGAGCTCTACAGATACAAAGTTGGCTAAACTGGGATTC 660
Db 601 GTCGTCTTACCAATGAGGAGCTCTACAGATACAAAGTTGGCTAAACTGGGATTC 660
QY 661 AGGTCCAAACAAATTAAGAAAGATGCTGAGATTGAGCATGATTTGGAATGGAATTT 720
Db 661 AGGTCCAAACAAATTAAGAAAGATGCTGAGATTGAGCATGATTTGGAATGGAATTT 720
QY 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGACATCTATTC 780
Db 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGACATCTATTC 780
QY 781 CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTAATTTGAGAGAACTGAGAA 840
Db 781 CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTAATTTGAGAGAACTGAGAA 840
QY 841 TTGTTTCCCTTCTTACGCGGCAATACAGCATTTGATTTTGGCTGGAATTAAGTGATG 900
Db 841 TTGTTTCCCTTCTTACGCGGCAATACAGCATTTGATTTTGGCTGGAATTAAGTGATG 900
QY 901 AATTAAGAAATTTGATGATTAACACTTCACTTTTATGATAGCGTTTCTTCCAA 960
Db 901 AATTAAGAAATTTGATGATTAACACTTCACTTTTATGATAGCGTTTCTTCCAA 960
QY 961 TTGTTTCCGATATTTAAAGCATATCTATTCGCAATGCTTGAAGAAAGATGCTGA 1020
Db 961 TTGTTTCCGATATTTAAAGCATATCTATTCGCAATGCTTGAAGAAAGATGCTGA 1020
QY 1021 AGATTAGACATGTTGGGAAGAGCTCAACAAATTAACAAAGTGAATGTTCCAGT 1080
Db 1021 AGATTAGACATGTTGGGAAGAGCTCAACAAATTAACAAAGTGAATGTTCCAGT 1080
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Db 1021 AGATTAGACATGTTGGGAAGAGCTCAACAAATTAACAAAGTGAATGTTCCAGT 1080
QY 1081 TGTAGAATTAATCTGTTTACACACATTTTGTTCATATTTGATATTTATGACCAACTT 1140
Db 1081 TGTAGAATTAATCTGTTTACACACATTTTGTTCATATTTGATATTTATGACCAACTT 1140
QY 1141 TCAAGTTGATTTGTTTAAATTAATGATTTTCAAGGAAAAAATTTTAAAAA 1195
Db 1141 TCAAGTTGATTTGTTTAAATTAATGATTTTCAAGGAAAAAATTTTAAAAA 1195
```

RESULT 7

```
US-09-455-486-1
; Sequence 1, Application US/09455486
; Patent No. 6833438
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USBS THEREOF
; FILE REFERENCE: 129.17-US-11
; CURRENT APPLICATION NUMBER: US/09/455,486
; CURRENT FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64)...(1083)
US-09-455-486-1
```

Query Match

Best Local Similarity 99.8%; Score 1193; DB 3; Length 1193;
Matches 1193; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 3 GAGACTCAGGTCAAGCTTAAGCGAAAGATGGGTGCTGAAGCCATCATTTTATAG 62
Db 1 GAGACTCAGGTCAAGCTTAAGCGAAAGATGGGTGCTGAAGCCATCATTTTATAG 60
QY 63 TTAATGGAAGAGAAAGAGATCAACAACCAAGAACTTTGGAATGAAGCTTAG 122
Db 61 TTAATGGAAGAGAAAGAGATCAACAACCAAGAACTTTGGAATGAAGCTTAG 120
QY 123 AGAAATTTAGAAAGAGAGATTAATTGCAATAAGACAGGAGAGACAGCATGCTTAAA 182
Db 121 AGAAATTTAGAAAGAGAGATTAATTGCAATAAGACAGGAGAGACAGCATGCTTAAA 180
QY 183 AGACCTGCTTTTGGATTTGGACCAACAGCCCATGCGAATTTGACTGCCCCCTCA 242
Db 181 AGACCTGCTTTTGGATTTGGACCAACAGCCCATGCGAATTTGACTGCCCCCTCA 240
QY 243 GAACTTACGACACACAGGAATCTTTTCCAGAGTGCACTTTCGAATTAAGCTGCT 302
Db 241 GAACTTACGACACACAGGAATCTTTTCCAGAGTGCACTTTCGAATTAAGCTGCT 300
QY 303 AATTATAGCATCTGACTTTCTTTTACACTCTTTGAGGGAAGTAATTCACCTTTAG 362
Db 301 AATTATAGCATCTGACTTTCTTTTACACTCTTTGAGGGAAGTAATTCACCTTTAG 360
QY 363 ACTTCCATCAACAATATTTTAAATTTCCAAATCTGGTCAATCAAGAAAGCTTGGCA 422
Db 361 ACTTCCATCAACAATATTTTAAATTTCCAAATCTGGTCAATCAAGAAAGCTTGGCA 420
QY 423 ATGGTTTCATCACTCTTGGCATGTTTACTGCGCAGTGTGATACAGCAATGTC 482
Db 423 ATGGTTTCATCACTCTTGGCATGTTTACTGCGCAGTGTGATACAGCAATGTC 482
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Db 421 ATGGTTCATCACTCTTGGCATTGGTTACCTGCGAGGTGATAGCACAATTGTC 480
Qy 483 CAACCTCATATGGAACCAAGTATAGAAGTTTCCACATTGGTGAATAGTGAATGTTA 542
Db 481 CAACCTCATATGGAACCAAGTATAGAAGTTTCCACATTGGTGAATAGTGAATGTTA 540
Qy 543 ACAAGAAAGAGTTGGGCTTCTGAGTTCTTTTGTGCTGACTGATGCAATTTATAGT 602
Db 541 ACAAGAAAGAGTTGGGCTTCTGAGTTCTTTTGTGCTGACTGATGCAATTTATAGT 600
Qy 603 CTGTCTTACCCCAATGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGCTATCAACAG 662
Db 601 CTGTCTTACCCCAATGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGCTATCAACAG 660
Qy 663 GTCCAAACAATATAGAAGATGCTGATGAGCATGATGTTGGAGATGAGATTTAT 722
Db 661 GTCCAAACAATATAGAAGATGCTGATGAGCATGATGTTGGAGATGAGATTTAT 720
Qy 723 GTGTCTCTGGGAATTTGGGATTGGCAATACTGGCTCTGTGGCTGTGATCATTTCCA 782
Db 721 GTGTCTCTGGGAATTTGGGATTGGCAATACTGGCTCTGTGGCTGTGATCATTTCCA 780
Qy 783 TCTGTAGTACCTCTTTGACATGAGAGAAATTTCACTATATTAAGAGCAAGCTAGAT 842
Db 781 TCTGTAGTACCTCTTTGACATGAGAGAAATTTCACTATATTAAGAGCAAGCTAGAT 840
Qy 843 GTTTCCTCTACTGCGGCAATATACAGCATGATTTTGGCTGGAAATAGTGAATGAT 902
Db 841 GTTTCCTCTACTGCGGCAATATACAGCATGATTTTGGCTGGAAATAGTGAATGAT 900
Qy 903 ATAAACAATTTGTATGATATACACCTCAACTTTTATGATAGCTGTTTCTTCCCAAT 962
Db 901 ATAAACAATTTGTATGATATACACCTCAACTTTTATGATAGCTGTTTCTTCCCAAT 960
Qy 963 GTTTCCTGATATTTAAAGCATACTATTCTGCTGATCTGTTGAGAGAAAGATCTGAG 1022
Db 961 GTTTCCTGATATTTAAAGCATACTATTCTGCTGATCTGTTGAGAGAAAGATCTGAG 1020
Qy 1023 ATTAGCATGTTGGGAAGCGTACCAAAATTAACAAACCTGATGTTGCTCCAGTTG 1082
Db 1021 ATTAGCATGTTGGGAAGCGTACCAAAATTAACAAACCTGATGTTGCTCCAGTTG 1080
Qy 1083 TGAATTAATCTTTTACACATTTTGTTCATATTTGATATTTTATACCAACATTTT 1142
Db 1081 TGAATTAATCTTTTACACATTTTGTTCATATTTGATATTTTATACCAACATTTT 1140
Qy 1143 AAGTTGTAATTTGTAATAAATGATTATTCAGAGAAAAAATTTTAAAAA 1195
Db 1141 AAGTTGTAATTTGTAATAAATGATTATTCAGAGAAAAAATTTTAAAAA 1193

RESULT 8
US-09-949-016-2686
; Sequence 2686, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2686
; LENGTH: 1147
; TYPE: DNA

ORGANISM: Human
US-09-949-016-2686
Query Match 95.7%; Score 1143.4; DB 3; Length 1147;
Best Local Similarity 99.9%; Pred. No. 1.7e-287;
Matches 1144; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 34 GTGGCTGAAGCCATCTATTTATGAAATTAATGAGAAAGCAAGAAAGACATCAAAAC 93
Db 1 GTGGCTGAAGCCATCTATTTATGAAATTAATGAGAAAGCAAGAAAGACATCAAAAC 60
Qy 94 AAGAGAACTTTGAAAAATGAAAGCTTAGAGAAATTTAGAGAAAGCATTAATTGCAAT 153
Db 61 AAGAGAACTTTGAAAAATGAAAGCTTAGAGAAATTTAGAGAAAGCATTAATTGCAAT 120
Qy 154 AGGACACGGAGAGACAGATGCTAAAGAAAGCTGCTTTTGGCATTTGGACCAACAG 213
Db 121 AGGACACGGAGAGACAGATGCTAAAGAAAGCTGCTTTTGGCATTTGGACCAACAG 180
Qy 214 CCATGCTGATGAAATTTGACTGCGCTTCAAGAACTTAGACACACAGAACTTTTCCAC 273
Db 181 CCATGCTGATGAAATTTGACTGCGCTTCAAGAACTTAGACACACAGAACTTTTCCAC 240
Qy 274 AGTGGCACTTGGCCAAATTAATAGCTGCTAATTAATAGCATCTGACTTTCTTTACATC 333
Db 241 AGTGGCACTTGGCCAAATTAATAGCTGCTAATTAATAGCATCTGACTTTCTTTACATC 300
Qy 334 TTCTGAGGGAAGTAATTCACCTTTTACCACTTCCATCAACATATTTTATTAATTC 393
Db 301 TTCTGAGGGAAGTAATTCACCTTTTACCACTTCCATCAACATATTTTATTAATTC 360
Qy 394 CAATCTGGATCAACAAGTCTTGGCAATGTTTGCATCTCTCTTGGCATTTGGT 453
Db 361 CAATCTGGATCAACAAGTCTTGGCAATGTTTGCATCTCTCTTGGCATTTGGT 420
Qy 454 ACCTGCAGATGATAGAGCAATTTGTCCAACTTCAATATGAGAACCAAGTATAGAGT 513
Db 421 ACCTGCAGATGATAGAGCAATTTGTCCAACTTCAATATGAGAACCAAGTATAGAGT 480
Qy 514 TTTCACATTTGTTGATTAAGTGTATTAACAAGAAAGCAATTTGGGCTTCTGATTTCT 573
Db 481 TTTCACATTTGTTGATTAAGTGTATTAACAAGAAAGCAATTTGGGCTTCTGATTTCT 540
Qy 574 TTTTTCGCTACGCAATGCAATTTATAGCTGCTTCAACCAATGAGGAGATCTACAGAT 633
Db 541 TTTTTCGCTACGCAATGCAATTTATAGCTGCTTCAACCAATGAGGAGATCTACAGAT 600
Qy 634 ACAAGTTGCTAAACTGGGATATCAACAGTCCAAACAAATTAAGAAGATGCTGGATTG 693
Db 601 ACAAGTTGCTAAACTGGGATATCAACAGTCCAAACAAATTAAGAAGATGCTGGATTG 660
Qy 694 AGCATGATTTTGAAGATGAGATTTATGCTCTCTGGAAATTTGGAGTTGGCAATAC 753
Db 661 AGCATGATTTTGAAGATGAGATTTATGCTCTCTGGAAATTTGGAGTTGGCAATAC 720
Qy 754 TGGCTCTGTGGCTGAGATCTATTTCCATCTGTGAGTGAATTTTGAATGAGAGAT 813
Db 721 TGGCTCTGTGGCTGAGATCTATTTCCATCTGTGAGTGAATTTTGAATGAGAGAT 780
Qy 814 TTCACTATATTCAGAGCAAGTAGAATTTGCTCTTACCTGGGCAACATACAGCAT 873
Db 781 TTCACTATATTCAGAGCAAGTAGAATTTGCTCTTACCTGGGCAACATACAGCAT 840
Qy 874 TGAATTTGCTGGAATTAAGTATGATATTAACAATTTGATGATATACCTCCAA 933
Db 841 TGAATTTGCTGGAATTAAGTATGATATTAACAATTTGATGATATACCTCCAA 900
Qy 934 CTTTATAGATGCTGTTTCTTCAATTTGTTGCTGATATTTTAAAGCATACTATTC 993
Db 901 CTTTATAGATGCTGTTTCTTCAATTTGTTGCTGATATTTTAAAGCATACTATTC 960
Qy 994 TCCATGCTTGAAGAAAGATGAGATTTAGATTTAGATGTTGGAGAGCTCACAAA 1053

Db 961 TGCCATGCTTGAGAGAGAGATCTAGAAATTTAGACATGTGTTGGAGAGCTCACAAA 1020
Qy 1054 TTAACAAAAGTGAATATGTTCCAGTTGTAGAAATTTACTGTTACACACATTTTGTTC 1113
Db 1021 TTAACAAAAGTGAATATGTTCCAGTTGTAGAAATTTACTGTTACACACATTTTGTTC 1080
Qy 1114 ATATGATATATTTTATGACCAACATTTCAAGTTGTGATTTGTTATATAAATGATTTTC 1173
Db 1081 ATATGATATATTTTATGACCAACATTTCAAGTTGTGATTTGTTATATAAATGATTTTC 1140
Qy 1174 AAGGA 1178
Db 1141 AAGGA 1145

RESULT 9

US-09-323-873A-6
Sequence 6, Application US/09323873A
Patent No. 6329503
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
APPLICANT: Rene S. Hubert
APPLICANT: Kahan Leong
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas C. Saffran
APPLICANT: Steve Chappell Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 129.16USU2
CURRENT APPLICATION NUMBER: US/09/323,873A
CURRENT FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 3627
TYPE: DNA
ORGANISM: Homo Sapiens
US-09-323-873A-6

Query Match 69.1%; Score 825.6; DB 3; Length 3627;
Best Local Similarity 99.5%; Pred. No. 1.2e-204;
Matches 828; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 1 CCGAGACTACGGCTCAAGCTTAAGGCGAAGAGTGGTGGCTGAAGCCATCTATTTATAG 60
Db 31 CCGAGACTACGGCTCAAGCTTAAGGCGAAGAGTGGTGGCTGAAGCCATCTATTTATAG 90
Qy 61 AATTATGGAAGAGCAAGAAAGCATCAAAACCAAGAAAGCTTTGGAATGAGACCTA 120
Db 91 AATTATGGAAGAGCAAGAAAGCATCAAAACCAAGAAAGCTTTGGAATGAGACCTA 150
Qy 121 GGAGAAATTTAGAGAGAGCATTTATTTGATTAAGAGACGGAGAGACCAAGATGCTAA 180
Db 151 GGAGAAATTTAGAGAGAGCATTTATTTGATTAAGAGACGGAGAGACCAAGATGCTAA 210
Qy 181 AAAAGCTGTGCTTTTGCATTGTCACCAAAACAGCCCATCTGTATTAATTTGAGCTG 240
Db 211 AAAAGCTGTGCTTTTGCATTGTCACCAAAACAGCCCATCTGTATTAATTTGAGCTG 270
Qy 241 CAGAAGCTTGAAGAGAGAGCTTTTCCACAGTGGACCTTGCCAAATTAATAATGAGCTG 300
Db 271 CAGAAGCTTGAAGAGAGAGCTTTTCCACAGTGGACCTTGCCAAATTAATAATGAGCTG 330
Qy 301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGAGAGATTAATTCACCTTTAG 360
Db 331 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGAGAGATTAATTCACCTTTAG 390
Qy 361 CAATCTCCATCAACAATTTTATTAATAATTTCCATCTCTGTGATCAACAAGTCTTGC 420

Db 391 CAATCTCCATCAACAATTTTATTAATAATTTCCATCTCTGTGATCAACAAGTCTTGC 450
Qy 421 CAATGTTTTCATCACTCTCTTGCAATTTGTTTACCTGCCAGGTGTGATAGACCAATG 480
Db 451 CAATGTTTTCATCACTCTCTTGCAATTTGTTTACCTGCCAGGTGTGATAGACCAATG 510
Qy 481 TCCAACTTCAATGAAGAACCAAGATTAAGAAGTTTCCACATTTGTTGGAATAGTGTGT 540
Db 511 TCCAACTTCAATGAAGAACCAAGATTAAGAAGTTTCCACATTTGTTGGAATAGTGTGT 570
Qy 541 TAACAGAAAGACAGTTGGGCTTCTCAAGTTTCTTTTGTCTGATCTGCATCAATTTATA 600
Db 571 TAACAGAAAGACAGTTGGGCTTCTCAAGTTTCTTTTGTCTGATCTGCATCAATTTATA 630
Qy 601 GTCTGTTTACCATGAGGCGATCTTACAGATCAAGTTTCTTAACTGGGCAATATCAAC 660
Db 631 GTCTGTTTACCATGAGGCGATCTTACAGATCAAGTTTCTTAACTGGGCAATATCAAC 690
Qy 661 AGGTCCAAACAATTAAGAAGATGCTGGATTTGACATGATGTTTGGAGATGAGATTT 720
Db 691 AGGTCCAAACAATTAAGAAGATGCTGGATTTGACATGATGTTTGGAGATGAGATTT 750
Qy 721 ATGTCTCTGGAATTTGGGATTTGGCAATAGTGGCTCTGTTGGCTGTGACATCTATTC 780
Db 751 ATGTCTCTGGAATTTGGGATTTGGCAATAGTGGCTCTGTTGGCTGTGACATCTATTC 810
Qy 781 CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCA 832
Db 811 CATCTGTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGTAA 862

RESULT 10

US-09-455-486-4
Sequence 4, Application US/09455486
Patent No. 6833438
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas C. Saffran
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 129.17-US-11
CURRENT APPLICATION NUMBER: US/09/455,486
CURRENT FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 3627
TYPE: DNA
ORGANISM: Homo sapiens
US-09-455-486-4

Query Match 69.1%; Score 825.6; DB 3; Length 3627;
Best Local Similarity 99.5%; Pred. No. 1.2e-204;
Matches 828; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 1 CCGAGACTACGGCTCAAGCTTAAGGCGAAGAGTGGTGGCTGAAGCCATCTATTTATAG 60
Db 31 CCGAGACTACGGCTCAAGCTTAAGGCGAAGAGTGGTGGCTGAAGCCATCTATTTATAG 90
Qy 61 AATTATGGAAGAGCAAGAAAGCATCAAAACCAAGAAAGCTTTGGAATGAGACCTA 120
Db 91 AATTATGGAAGAGCAAGAAAGCATCAAAACCAAGAAAGCTTTGGAATGAGACCTA 150
Qy 121 GGAGAAATTTAGAGAGAGCATTTATTTGATTAAGAGACGGAGAGACCAAGATGCTAA 180
Db 151 GGAGAAATTTAGAGAGAGCATTTATTTGATTAAGAGACGGAGAGACCAAGATGCTAA 210
Qy 181 AAAAGCTGTGCTTTTGCATTGTCACCAAAACAGCCCATCTGTATTAATTTGAGCTG 240

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Db 211 AAGAGCTGCTTTTCATTGCAACAAACAGCCATGCGAATGGAATTTGACGCCCTT 270
Qy 241 CAGAACTTCAGACACACAGGAACCTTTTCCAGAGTGGCACTTGCATTAATAAATAGTG 300
Db 271 CAGAACTTCAGACACACAGGAACCTTTTCCAGAGTGGCACTTGCATTAATAAATAGTG 330
Qy 301 CTATTATAGCATCTCTGACTTTCTTTTCACTCTTCTGAGGAGATTAATCACCCCTTAG 360
Db 331 CTATTATAGCATCTCTGACTTTCTTTTCACTCTTCTGAGGAGATTAATCACCCCTTAG 390
Qy 361 CAACCTCCCATCAACAATTTTATAAATTCATCTGCTGATCAACAACCTCTTG 420
Db 391 CAACCTCCCATCAACAATTTTATAAATTCATCTGCTGATCAACAACCTCTTG 450
Qy 421 CAATGGTTCCATCACTCTCTGGCATTTGTTTACCTGCAAGGTGATAGCGCAATTG 480
Db 451 CAATGGTTCCATCACTCTCTGGCATTTGTTTACCTGCAAGGTGATAGCGCAATTG 510
Qy 481 TCCAACTTCATTAATGGAACCAAGATATGAAGATTTCCACATTTGGTGAATAGTGATG 540
Db 511 TCCAACTTCATTAATGGAACCAAGATATGAAGATTTCCACATTTGGTGAATAGTGATG 570
Qy 541 TAAACAAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTCTGTACTGATGCAATTTATA 600
Db 571 TAAACAAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTCTGTACTGATGCAATTTATA 630
Qy 601 GTCTGCTTACCAATGAGGCGATTCCTACAGATACAAAGTTGCTGAACTGGGCAATTAAC 660
Db 631 GTCTGCTTACCAATGAGGCGATTCCTACAGATACAAAGTTGCTGAACTGGGCAATTAAC 690
Qy 661 AGGTCCAAACAAATTAAGAAGATGCTGATGAGATGATGTTTGGAGATGAGATTT 720
Db 691 AGGTCCAAACAAATTAAGAAGATGCTGATGAGATGATGTTTGGAGATGAGATTT 750
Qy 721 ATGTGCTCTGGAAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGATCTATTC 780
Db 751 ATGTGCTCTGGAAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGATCTATTC 810
Qy 781 CATCTGTAGTGAATCTTTGACATGAGAAATTTTCACTATTTACAGAGAA 832
Db 811 CATCTGTAGTGAATCTTTGACATGAGAAATTTTCACTATTTACAGTAAA 862

```

RESULT 11

US-10-010-667A-6

Sequence 6, Application US/10010667A

Patent No. 6887975

GENERAL INFORMATION:

APPLICANT: Afar, Daniel

APPLICANT: Hubert, Rene S.

APPLICANT: Leong, Kahan

APPLICANT: Raitano, Arthur B.

APPLICANT: Salfman, Douglas C.

TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS

FILE REFERENCE: 511582001601

CURRENT APPLICATION NUMBER: US/10/010,667A

CURRENT FILING DATE: 2001-12-06

PRIOR APPLICATION NUMBER: 09/323,873

PRIOR FILING DATE: 1999-06-01

PRIOR APPLICATION NUMBER: 60/087,520

PRIOR FILING DATE: 1998-06-01

PRIOR APPLICATION NUMBER: 60/091,183

PRIOR FILING DATE: 1998-06-30

NUMBER OF SEQ ID NOS: 32

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6

LENGTH: 3627

TYPE: DNA

ORGANISM: Homo sapiens

US-10-010-667A-6

Query Match 69.1%; Score 825.6; DB 3; Length 3627;
 Best Local Similarity 99.5%; Pred. No. 1.2e-204;
 Matches 828; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy 1 CCGAGACTCAGCGTCAAGCTTAAGCGAAGAGTGGTGGCTGAAGCCATATTTATAG 60
Db 31 CCGAGACTCAGCGTCAAGCTTAAGCGAAGAGTGGTGGCTGAAGCCATATTTATAG 90
Qy 61 AATTAATGAAAGCAGAAAGATCAACAACCAAGAAGACTTTGGAAATTAAGCTTA 120
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Qy 121 GGAGAAATTTAGAAAGAGAGATTAATTTGATTAAGAGACAGGAGAGACAGATGCTAA 180
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Qy 361 CAACCTCCCATCAACAATTTTATAAATTCATCTGCTGATCAACAACCTCTTG 420
Db 391 CAACCTCCCATCAACAATTTTATAAATTCATCTGCTGATCAACAACCTCTTG 450
Qy 421 CAATGGTTCCATCACTCTCTGGCATTTGTTTACCTGCAAGGTGATAGCGCAATTG 480
Db 451 CAATGGTTCCATCACTCTCTGGCATTTGTTTACCTGCAAGGTGATAGCGCAATTG 510
Qy 481 TCCAACTTCATTAATGGAACCAAGATATGAAGATTTCCACATTTGGTGAATAGTGATG 540
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Db 571 TAAACAAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTCTGTACTGATGCAATTTATA 630
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Qy 721 ATGTGCTCTGGAAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGATCTATTC 780
Db 751 ATGTGCTCTGGAAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGATCTATTC 810
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RESULT 12

US-09-439-313-342/C

Sequence 342, Application US/09439313

Patent No. 6329505

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

APPLICANT: Dillon, Davin C.

APPLICANT: Mitchem, Jennifer L.

APPLICANT: Harlocker, Susan Louise

APPLICANT: Reed, Steven G.

APPLICANT: Kalos, Michael
APPLICANT: Fanger, Gary
APPLICANT: Retter, Mark
APPLICANT: Solk, John
APPLICANT: Day, Craig
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C9
CURRENT APPLICATION NUMBER: US/09/439,313
CURRENT FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 342
LENGTH: 592
TYPE: DNA
ORGANISM: Homo sapien
US-09-439-313-342

Query Match 48.6%; Score 581; DB 3; Length 592;
Best Local Similarity 99.7%; Pred. No. 2,6e-141;
Matches 581; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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583 CCGAAGCTCAGGCTCAAGCTAAGGGAAGTGGGTGCTGAAGCCATCTATTATTATG 524
61 AATTATGGAAGAGCAAGAAAGACATCAAAACCAAGAAAGCTTTGAAATGAAGCTTA 120
523 AATTATGGAAGAGCAAGAAAGACATCAAAACCAAGAAAGCTTTGAAATGAAGCTTA 464
121 GGAGAATTTAGAGAAGACATTAATTGTCATTAAGACACGGGAGAGACCAAGCATCTTA 180
463 GGAGAATTTAGAGAAGACATTAATTGTCATTAAGACACGGGAGAGACCAAGCATCTTA 404
181 AAAAGCTGTGCTTTTGGCTTTGGCAAGCAAGCCCATGCTGAATTTGACCTGCTT 240
403 AAAAGCTGTGCTTTTGGCTTTGGCAAGCAAGCCCATGCTGAATTTGACCTGCTT 344
241 CAGAAGCTTCAGACACACAGAAAGCTTTTCCACAGTGGCACTTGGCCAAATTAATAGCTG 300
343 CAGAAGCTTCAGACACACAGAAAGCTTTTCCACAGTGGCACTTGGCCAAATTAATAGCTG 284
301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTTTGAGGGAAGTAATTCACCTTTAG 360
283 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTTTGAGGGAAGTAATTCACCTTTAG 224
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223 CAAGTTCCCATCAACATATTTTATTAATTCATCTGTCATCAACCAAGTCTTGC 164
421 CAATGTTTCCATCACTCTCTTGGCAATTTGCTTACCTGCAAGTGTGATAGCAAGTTG 480
163 CAATGTTTCCATCACTCTCTTGGCAATTTGCTTACCTGCAAGTGTGATAGCAAGTTG 104
481 TCCAACTTCATTAATGAAGCAAGTATTAAGAGTTTCCCAATTTGGAATAGTGATGT 540
103 TCCAACTTCATTAATGAAGCAAGTATTAAGAGTTTCCCAATTTGGAATAGTGATGT 44
541 TAAACAAGAAAGCAAGTTGGGCTTCTCAGTTCTTTTGTCTGT 583
43 TAAACAAGAAAGCAAGTTGGGCTTCTCAGTTCTTTTGTCTGT 1

RESULT 13
US-09-352-616A-342/C
Sequence 342, Application US/09352616A
Patent No. 6395278
GENERAL INFORMATION:
APPLICANT: Dillon, Davin C.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang, Yugu
APPLICANT: Xu, Jiangchun
APPLICANT: Mitcham, Jennifer Lynn

TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427C8
CURRENT APPLICATION NUMBER: US/09/352,616A
CURRENT FILING DATE: 1999-07-13
NUMBER OF SEQ ID NOS: 472
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 342
LENGTH: 592
TYPE: DNA
ORGANISM: Homo sapien
US-09-352-616A-342

Query Match 48.6%; Score 581; DB 3; Length 592;
Best Local Similarity 99.7%; Pred. No. 2,6e-141;
Matches 581; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

1 CCGAAGCTCAGGCTCAAGCTAAGGGAAGTGGGTGCTGAAGCCATCTATTATTATG 60
583 CCGAAGCTCAGGCTCAAGCTAAGGGAAGTGGGTGCTGAAGCCATCTATTATTATG 524
61 AATTATGGAAGAGCAAGAAAGACATCAAAACCAAGAAAGCTTTGAAATGAAGCTTA 120
523 AATTATGGAAGAGCAAGAAAGACATCAAAACCAAGAAAGCTTTGAAATGAAGCTTA 464
121 GGAGAATTTAGAGAAGACATTAATTGTCATTAAGACACGGGAGAGACCAAGCATCTTA 180
463 GGAGAATTTAGAGAAGACATTAATTGTCATTAAGACACGGGAGAGACCAAGCATCTTA 404
181 AAAAGCTGTGCTTTTGGCTTTGGCAAGCAAGCCCATGCTGAATTTGACCTGCTT 240
403 AAAAGCTGTGCTTTTGGCTTTGGCAAGCAAGCCCATGCTGAATTTGACCTGCTT 344
241 CAGAAGCTTCAGACACACAGAAAGCTTTTCCACAGTGGCACTTGGCCAAATTAATAGCTG 300
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223 CAAGTTCCCATCAACATATTTTATTAATTCATCTGTCATCAACCAAGTCTTGC 164
421 CAATGTTTCCATCACTCTCTTGGCAATTTGCTTACCTGCAAGTGTGATAGCAAGTTG 480
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481 TCCAACTTCATTAATGAAGCAAGTATTAAGAGTTTCCCAATTTGGAATAGTGATGT 540
103 TCCAACTTCATTAATGAAGCAAGTATTAAGAGTTTCCCAATTTGGAATAGTGATGT 44
541 TAAACAAGAAAGCAAGTTGGGCTTCTCAGTTCTTTTGTCTGT 583
43 TAAACAAGAAAGCAAGTTGGGCTTCTCAGTTCTTTTGTCTGT 1

RESULT 14
US-09-636-215-342/C
Sequence 342, Application US/09636215
Patent No. 6620922
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.

```

; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yaair A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 592
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-636-215-342

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Query Match      48.6%; Score 581; DB 3; Length 592;
Best Local Similarity 99.7%; Pred. No. 2,6e-141;
Matches 581; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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OY 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATAG 60
DB 583 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATAG 524
OY 61 AATTATGGAAGACAGAAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCTTA 120
DB 523 AATTATGGAAGACAGAAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCTTA 464
OY 121 GGAGAAATTTAAGAAAGAGATTAATTGCTAAGGACAGGAGAGACAGCATGCTTA 180
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OY 541 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTCTTTTGGCTGT 583
DB 43 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTCTTTTGGCTGT 1

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RESULT 15
US-09-685-166A-342/c
; Sequence 342, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.

```

```

; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yaair A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 592
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-685-166A-342

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Query Match      48.6%; Score 581; DB 3; Length 592;
Best Local Similarity 99.7%; Pred. No. 2,6e-141;
Matches 581; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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OY 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATAG 60
DB 583 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGTGGCTGAAGCCATCTATTATTATAG 524
OY 61 AATTATGGAAGACAGAAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCTTA 120
DB 523 AATTATGGAAGACAGAAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCTTA 464
OY 121 GGAGAAATTTAAGAAAGAGATTAATTGCTAAGGACAGGAGAGACAGCATGCTTA 180
DB 463 GGAGAAATTTAAGAAAGAGATTAATTGCTAAGGAGACGAGAGACAGCATGCTTA 404
OY 181 AAAGACTGTGCTTTTGCACTTTTGCACCAACAGCCCATGCTGATGAATTTGACCTG 240
DB 403 AAAGACTGTGCTTTTGCACTTTTGCACCAACAGCCCATGCTGATGAATTTGACCTG 344
OY 241 CAGAACTTCAGCACACACAGAACTCTTTTCCACAGTGGCCTTGCCATTAATAATAGCTG 300
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DB 163 CAATGTTTCCATCACTCTCTTGGCATTTGTTAATCTGCGAGTGTGATGCGCAATTG 104
OY 481 TCCAACTTCATATAGAACCAAGTATTAAGAGTTTCCATGTTGGTGAATAGTGATG 540
DB 103 TCCAACTTCATATAGAACCAAGTATTAAGAGTTTCCATGTTGGTGAATAGTGATG 44
OY 541 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTCTTTTGGCTGT 583
DB 43 TAACAAGAAAGCAGTTTGGGCTTCTCAGTTCTTTTGGCTGT 1

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Search completed: December 5, 2005, 03:19:37

Job time : 241.244 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OW nucleic - nucleic search, using sw model

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(without alignments)
8858.046 Million cell updates/sec

Title: US-10-750-262-1

Perfect score: 1195

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Searched: 9793542 seqs, 413469005 residues

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Query Length	DB ID	Description
1	1195	100.0	1195	3	US-09-759-143-878 Sequence 878, App
2	1195	100.0	1195	3	US-09-760-669-878 Sequence 878, App
3	1195	100.0	1195	3	US-09-822-827-878 Sequence 878, App
4	1195	100.0	1195	3	US-09-895-793-878 Sequence 878, App
5	1195	100.0	1195	3	US-09-895-814-878 Sequence 878, App
6	1195	100.0	1195	5	US-10-012-896-878 Sequence 878, App
7	1195	100.0	1195	5	US-10-011-095-1 Sequence 1, Appl
8	1195	100.0	1195	5	US-10-010-667A-1 Sequence 1, Appl
9	1195	100.0	1195	5	US-10-205-823-396 Sequence 396, App
10	1195	100.0	1195	6	US-10-144-678A-878 Sequence 878, App
11	1195	100.0	1195	6	US-10-294-025-878 Sequence 878, App
12	1195	100.0	1195	6	US-10-393-590-35 Sequence 35, Appl
13	1195	100.0	1195	6	US-10-393-567-35 Sequence 35, Appl
14	1195	100.0	1195	6	US-10-394-087-35 Sequence 35, Appl
15	1195	100.0	1195	6	US-10-295-027-713 Sequence 713, App
16	1195	100.0	1195	6	US-10-295-027-1130 Sequence 1130, App
17	1195	100.0	1195	8	US-10-643-795A-16 Sequence 16, Appl
18	1195	100.0	1195	8	US-10-643-795A-42 Sequence 42, Appl
19	1195	100.0	1195	9	US-10-750-262-1 Sequence 1, Appl
20	1195	100.0	1195	9	US-10-948-518-16 Sequence 16, Appl
21	1195	100.0	1195	9	US-10-948-518-42 Sequence 42, Appl
22	1195	100.0	1195	9	US-10-956-157-1811 Sequence 1811, Ap
23	1195	100.0	1195	9	US-10-956-157-7046 Sequence 7046, Ap

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26	1195	100.0	1195	10	US-11-051-454-396 Sequence 396, App
27	1195	100.0	1330	7	US-10-755-889-191 Sequence 191, App
28	1193	99.8	1193	6	US-10-165-044-1 Sequence 1, Appl
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34	1181.8	98.9	1193	8	US-10-830-899-2 Sequence 2, Appl
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37	1177	98.5	1177	8	US-10-696-639-15 Sequence 15, Appl
38	1177	98.5	1201	7	US-10-425-114-16445 Sequence 16445, A
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40	1048	87.7	1365	8	US-10-830-899-6 Sequence 6, Appl
41	1048	87.7	1365	9	US-10-861-662-6 Sequence 6, Appl
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44	825.6	69.1	3627	5	US-10-011-095-6 Sequence 6, Appl
45	825.6	69.1	3627	5	US-10-010-667A-6 Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-09-759-143-878
; Sequence 878, Application US/09759143
; Patent No. US20020022248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jlang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FaSTSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-878

Query Match 100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1.1e+281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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121 GGAGAAATTAGAGAGAGATTAATTTGATAGAGACAGGAGAGAGACAGATGCTAA 180
181 AAGAGCTGCTGCTTTGATTTGACCAACAGCCCTGCTGATGAATTTGACTGCCCTT 240
181 AAGAGCTGCTGCTTTGATTTGACCAACAGCCCTGCTGATGAATTTGACTGCCCTT 240
241 CAGAACTTGACACACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAATACTG 300
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301 CTAATATAGCATCTGACTTTTCTTTTACACTCTTGAAGGAAATTAATTCACCTTTAG 360
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361 CAACCTCCCATCAACATATTTTATTAATAATTCCTGCTGCTATCAACAAATGCTTGC 420
361 CAACCTCCCATCAACATATTTTATTAATAATTCCTGCTGCTATCAACAAATGCTTGC 420
421 CAATGCTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGATGACAGCAATTTG 480
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481 TCGAATCTCATTAATGGAACCAAGATTAAGAAATTTCCAAATTTGATGATGATGATG 540
481 TCGAATCTCATTAATGGAACCAAGATTAAGAAATTTCCAAATTTGATGATGATGATG 540
541 TAAACAAGAAAGAGCTTTGGGCTTCTGAGTTCTTTTGTCTGATCTGATGCAATTTATA 600
541 TAAACAAGAAAGAGCTTTGGGCTTCTGAGTTCTTTTGTCTGATCTGATGCAATTTATA 600
601 GTCGTCTTACCAATGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGCAATTCAC 660
601 GTCGTCTTACCAATGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGCAATTCAC 660
661 AGGTCCAAACAAATTAAGAAAGATGCTGATGAGATGATGTTGGAGAAATGAGATTT 720
661 AGGTCCAAACAAATTAAGAAAGATGCTGATGAGATGATGTTGGAGAAATGAGATTT 720
721 ATGTGCTCTGGAATTTGGGATTTGGCAATTTGCTGCTGCTGATCACTTAATTC 780
721 ATGTGCTCTGGAATTTGGGATTTGGCAATTTGCTGCTGCTGATCACTTAATTC 780
781 CATCTGAGTGACTCTTTGACATGAGAGAAATTTCACTTAATTCAGAGCAACTAGGAA 840
781 CATCTGAGTGACTCTTTGACATGAGAGAAATTTCACTTAATTCAGAGCAACTAGGAA 840
841 TTGTTTCCCTTCTACTGGGCAATTAACGCAATTTGCTGCTGGAATTAAGTGAATG 900
841 TTGTTTCCCTTCTACTGGGCAATTAACGCAATTTGCTGCTGGAATTAAGTGAATG 900
901 AATATAAACAATTTGATGATTAACACCTCCCACTTTTATGATGATGCTTTTCCCTTCCA 960
901 AATATAAACAATTTGATGATTAACACCTCCCACTTTTATGATGATGCTTTTCCCTTCCA 960
961 TTGTTTCCCTTCTACTGGGCAATTAACGCAATTTGCTGCTGGAATTAAGTGAATG 1020
961 TTGTTTCCCTTCTACTGGGCAATTAACGCAATTTGCTGCTGGAATTAAGTGAATG 1020
1021 AGATTAAGCATGTTGGGAAAGAGCTGACCAAAATTAACAAACCTGAGATTTGTTCCAGT 1080
1021 AGATTAAGCATGTTGGGAAAGAGCTGACCAAAATTAACAAACCTGAGATTTGTTCCAGT 1080
1081 TGAAGAAATTAAGCTTTTACACATTTTGTGCAATTTGATTAATTTTATCACCAATTT 1140
1081 TGAAGAAATTAAGCTTTTACACATTTTGTGCAATTTGATTAATTTTATCACCAATTT 1140
1141 TCAAGTTTGAATTTGTTTAAATGAATTTTCAAGGAAAAAATTTTAAAAAATTTT 1195
1141 TCAAGTTTGAATTTGTTTAAATGAATTTTCAAGGAAAAAATTTTAAAAAATTTT 1195

RESULT 2
US-09-780-669-878
Sequence 878, Application US/09780669
Patent No. US20020051977A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuxui
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
APPLICANT: Hurai, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C24
CURRENT APPLICATION NUMBER: US/09/780,669
CURRENT FILING DATE: 2001-02-09
NUMBER OF SEQ ID NOS: 943
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-780-669-878
Query Match 100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 CCGAGACTCAGGCTCAAGCTTAAGCGGAGAGTGGGTGCTGAAGCCATTAATTTATNG 60
1 CCGAGACTCAGGCTCAAGCTTAAGCGGAGAGTGGGTGCTGAAGCCATTAATTTATNG 60
61 AATTAATGGAAGCGAAGAAAGACATCAACCAAGAACTTTGGAATGAAGCCCTTA 120
61 AATTAATGGAAGCGAAGAAAGACATCAACCAAGAACTTTGGAATGAAGCCCTTA 120
121 GGAGAAATTTAGAGAGAGATTAATTTGATAGAGACAGGAGAGACAGATGCTAA 180
121 GGAGAAATTTAGAGAGAGATTAATTTGATAGAGACAGGAGAGACAGATGCTAA 180
181 AAGAGCTGCTGCTTTGATTTGACCAACAGCCCTGCTGATGAATTTGACTGCCCTT 240
181 AAGAGCTGCTGCTTTGATTTGACCAACAGCCCTGCTGATGAATTTGACTGCCCTT 240
241 CAGAACTTGACACACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAATACTG 300
241 CAGAACTTGACACACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAATACTG 300
301 CTAATATAGCATCTGACTTTTCTTTTACACTCTTGAAGGAAATTAATTCACCTTTAG 360
301 CTAATATAGCATCTGACTTTTCTTTTACACTCTTGAAGGAAATTAATTCACCTTTAG 360
361 CAACCTCCCATCAACATATTTTATTAATAATTCCTGCTGCTATCAACAAATGCTTGC 420
361 CAACCTCCCATCAACATATTTTATTAATAATTCCTGCTGCTATCAACAAATGCTTGC 420
421 CAATGCTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGATGACAGCAATTTG 480
421 CAATGCTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGATGACAGCAATTTG 480

Db 421 CAATGTTTCCATCACTCTCTTGGCATTGGTTTACCTCCAGCTGTGATAGACGAATTG 480
Oy 481 TCCAACTTCATTAATGGAACCAAGTATAGAAGTTCCCATTTGGTGTAGTGAAGTGT 540
Db 481 TCCAACTTCATTAATGGAACCAAGTATAGAAGTTCCCATTTGGTGTAGTGAAGTGT 540
Oy 541 TAACAGAAAGCAGTTGGGGCTTCTCAGTTTCTTTTGTCTGTACTGATGCAATTTATA 600
Db 541 TAACAGAAAGCAGTTGGGGCTTCTCAGTTTCTTTTGTCTGTACTGATGCAATTTATA 600
Oy 601 GTCTGTCTTACCAATGAGCGCATCTTACAGATATAAGTTGTAACTGGCGATTCAC 660
Db 601 GTCTGTCTTACCAATGAGCGCATCTTACAGATATAAGTTGTAACTGGCGATTCAC 660
Oy 661 AGGTCCAACAAAATTAAGAGATGCTGATGAGATGAGTTGGAAGATGAGATT 720
Db 661 AGGTCCAACAAAATTAAGAGATGCTGATGAGATGAGTTGGAAGATGAGATT 720
Oy 721 ATGTGTCTGTGGAAATTTGGGATTTGGCAATACCTGCTCTGTGGCTGTGACATCTATTC 780
Db 721 ATGTGTCTGTGGAAATTTGGGATTTGGCAATACCTGCTCTGTGGCTGTGACATCTATTC 780
Oy 781 CATCTGTAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAA 840
Db 781 CATCTGTAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAA 840
Oy 841 TTGTTTCCCTCTCTCTGGGCAAAATACAGCAATGATTTTGGCCCTGGAATAGTGGATAG 900
Db 841 TTGTTTCCCTCTCTCTGGGCAAAATACAGCAATGATTTTGGCCCTGGAATAGTGGATAG 900
Oy 901 ATATTAACAATTTGTATGTATATACACCTCCAACTTTTATGATAGCTTTTCTTCCAA 960
Db 901 ATATTAACAATTTGTATGTATATACACCTCCAACTTTTATGATAGCTTTTCTTCCAA 960
Oy 961 TTGTTGTCTGTATATTTAAAGCATATCTTCTGCCATGCTTGAAGAAAGATCTGA 1020
Db 961 TTGTTGTCTGTATTTTAAAGCATATCTTCTGCCATGCTTGAAGAAAGATCTGA 1020
Oy 1021 AGATTAGACATGTTGGGAAGACGTACCAAAATTAACAAAACAGATATGTTCCCACT 1080
Db 1021 AGATTAGACATGTTGGGAAGACGTACCAAAATTAACAAAACAGATATGTTCCCACT 1080
Oy 1081 TGTGAATTAATCTGTTTACACATTTTGTTCATATTTATATATTTTATACCAACAT 1140
Db 1081 TGTGAATTAATCTGTTTACACATTTTGTTCATATTTATATATTTTATACCAACAT 1140
Oy 1141 TCAAGTTTGTATTTGTATTAATAATGATTTCAAGGAAAAA 1195
Db 1141 TCAAGTTTGTATTTGTATTAATAATGATTTCAAGGAAAAA 1195

RESULT 3

US-09-822-827-878
; Sequence 878; Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822.827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: PasteSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-822-827-878

Query Match 100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1.le-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CCGAGACTCAGCGTCAAGCTTAAGCGAAGATGGGTGGTGAAGCCATTAATTTTATAG 60
Db 1 CCGAGACTCAGCGTCAAGCTTAAGCGAAGATGGGTGGTGAAGCCATTAATTTTATAG 60
Oy 61 AATTAAATGAAAGCAGAAAAAGCATCAAAACCAAGAAACCTTTGGAAAAAGAGCTTA 120
Db 61 AATTAAATGAAAGCAGAAAAAGCATCAAAACCAAGAAACCTTTGGAAAAAGAGCTTA 120
Oy 121 GGAGAAATTTTAAAGAAAGAGATTTATTTGATAGGACAGGGAGAGAACAGATGCTAA 180
Db 121 GGAGAAATTTTAAAGAAAGAGATTTATTTGATAGGACAGGGAGAGAACAGATGCTAA 180
Oy 181 AAAGACCTGTGCTTTTGCATTTTGCACCAACAGCCCATGCTGATGATTTGACCTT 240
Db 181 AAAGACCTGTGCTTTTGCATTTTGCACCAACAGCCCATGCTGATGATTTGACCTT 240
Oy 241 CAGAACTTCAGCACACAGGAACTCTTTTCCAGTGGCACTTGCATTTAAATAGCTG 300
Db 241 CAGAACTTCAGCACACAGGAACTCTTTTCCAGTGGCACTTGCATTTAAATAGCTG 300
Oy 301 CTATTATAGATCTCTGACCTTTCTTACCTCTTGAAGGAAATTAATCACCCTTAG 360
Db 301 CTATTATAGATCTCTGACCTTTCTTACCTCTTGAAGGAAATTAATCACCCTTAG 360
Oy 361 CAACTTCCCATCAACATATTTTAAATTTCCAACTCTGATCATCAACAACTTTGC 420
Db 361 CAACTTCCCATCAACATATTTTAAATTTCCAACTCTGATCATCAACAACTTTGC 420
Oy 421 CAATGTTTCCATCATCTCTTGGCATTTGATTAACCTGCAAGGTGTATGACGCAATTG 480
Db 421 CAATGTTTCCATCATCTCTTGGCATTTGATTAACCTGCAAGGTGTATGACGCAATTG 480
Oy 481 TCCAACTTCATTAATGAAACCAAGTAAGAAATTTCCACTGTTGGATTAAGTGAATG 540
Db 481 TCCAACTTCATTAATGAAACCAAGTAAGAAATTTCCACTGTTGGATTAAGTGAATG 540
Oy 541 TAAACAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTGTGCTGATCTCATGCAATTTATA 600
Db 541 TAAACAGAAAGCAGTTGGGCTTCTCAGTTTCTTTTGTGCTGATCTCATGCAATTTATA 600
Oy 601 GTCTGTCTTACCAATGAGCGATCTTCAAGATTAACAAGTTGTCTTATGATGCAATTTATA 660
Db 601 GTCTGTCTTACCAATGAGCGATCTTCAAGATTAACAAGTTGTCTTATGATGCAATTTATA 660
Oy 661 AGGTCCAACAAAATTAAGAAAGATGCTGATGAGATGATTTTGGAAATGGAATTT 720
Db 661 AGGTCCAACAAAATTAAGAAAGATGCTGATGAGATGATTTTGGAAATGGAATTT 720
Oy 721 ATGTGTCTGTGGAAATTTGGGATTTGGCAATACCTGCTGTGCTGATGATCTATTC 780
Db 721 ATGTGTCTGTGGAAATTTGGGATTTGGCAATACCTGCTGTGCTGATGATCTATTC 780
Oy 781 CATCTGTAGTGAATCTTTTACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAA 840
Db 781 CATCTGTAGTGAATCTTTTACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAA 840
Oy 841 TTGTTTCCCTCTTACTGAGGAGCAATACACCATTTGATTTTGGCTGGAATTAAGTGA 900
Db 841 TTGTTTCCCTCTTACTGAGGAGCAATACACCATTTGATTTTGGCTGGAATTAAGTGA 900
Oy 901 ATATTAACAATTTGTATGTATATACACCTCAACTTTTATGATAGCTTTTCTTCCAA 960
Db 901 ATATTAACAATTTGTATGTATATACACCTCAACTTTTATGATAGCTTTTCTTCCAA 960
Oy 961 TTGTTGTCTGTATTTTAAAGCATATCTATCTGCAAGCTTTGAGAGAAAGATCTGA 1020
Db 961 TTGTTGTCTGTATTTTAAAGCATATCTATCTGCAAGCTTTGAGAGAAAGATCTGA 1020
Oy 1021 AGATTAGACATGTTGGGAAGACGTACCAAAATTTAAACAAACAGATATGTTCCCACT 1080
Db 1021 AGATTAGACATGTTGGGAAGACGTACCAAAATTTAAACAAACAGATATGTTCCCACT 1080

QY 1081 TGTAGAACTACGTGTTACACACATTTTGTTCATATTTATATTTATCACCACATT 1140
DB 1081 TGTAGAACTACGTGTTACACACATTTTGTTCATATTTATATTTATCACCACATT 1140
QY 1141 TCAAGTTGTATTTGTTAATAAATGATTTTCAGAGAAAAAATTTTAAAAA 1195
DB 1141 TCAAGTTGTATTTGTTAATAAATGATTTTCAGAGAAAAAATTTTAAAAA 1195

RESULT 4
US-09-895-793-878
; Sequence 878, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stoik, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Wang, Aljun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hedler, William T.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Basols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Ranger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895,793
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-895-793-878

Query Match 100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGAGCTCAGCGTCAAGCTTAAGCGAAGTGGTGGCTGAAGCCATCTACTATTATATAG 60
DB 1 CCGAGCTCAGCGTCAAGCTTAAGCGAAGTGGTGGCTGAAGCCATCTACTATTATATAG 60
QY 61 AATTAATGAAAGCAAAAAAGACATCAAAACCAAGAAAGAACTTTGAAAAATGAAGCTTA 120
DB 61 AATTAATGAAAGCAAAAAAGACATCAAAACCAAGAAAGAACTTTGAAAAATGAAGCTTA 120
QY 121 GGAGAAATTTAGAGAGAGATTTATTTGCTAAGAGACAGGAGAGACACAGCATCTAA 180
DB 121 GGAGAAATTTAGAGAGAGATTTATTTGCTAAGAGACAGGAGAGACACAGCATCTAA 180
QY 181 AAAAGCTGTGCTTTGCTATTTGACACAAACAGCCCATGTGTATGTAATTTGACTGCCCTT 240
DB 181 AAAAGCTGTGCTTTGCTATTTGACACAAACAGCCCATGTGTATGTAATTTGACTGCCCTT 240
QY 241 CAGAACTTGAGACACACAGAACTCTTTCCACAGTGGACCTTGCAATTTAAATAGCTG 300
DB 241 CAGAACTTGAGACACACAGAACTCTTTCCACAGTGGACCTTGCAATTTAAATAGCTG 300

QY 301 CTATTAAAGCATCTGACTTTTCTTTTACACTCTCTGAGGAGATTAATTCACCCCTTAG 360
DB 301 CTATTAAAGCATCTGACTTTTCTTTTACACTCTCTGAGGAGATTAATTCACCCCTTAG 360
QY 361 CAATCCCATCAAGAAATTTTAAATTAATTCOAATCTGTCATCAACAAAGCTTTCG 420
DB 361 CAATCCCATCAAGAAATTTTAAATTAATTCOAATCTGTCATCAACAAAGCTTTCG 420
QY 421 CAATGTTTCCATCACTCTCTTGGCAATTGTTTACCTGCGCAGGTGTATAGAGCAATTG 480
DB 421 CAATGTTTCCATCACTCTCTTGGCAATTGTTTACCTGCGCAGGTGTATAGAGCAATTG 480
QY 481 TCCAACTTCAATATGGAACCAAGTATTAAGAGATTTCCAACTGTTGATTAAGTGTATG 540
DB 481 TCCAACTTCAATATGGAACCAAGTATTAAGAGATTTCCAACTGTTGATTAAGTGTATG 540
QY 541 TAAAGAAAGAGAGTTGGGCTTTCAGTTCTTTTCTGCTACCTGCAATGCAATTTAA 600
DB 541 TAAAGAAAGAGAGTTGGGCTTTCAGTTCTTTTCTGCTACCTGCAATGCAATTTAA 600
QY 601 GTCTGCTTACCCCAATGAGGCGATCTTACAGATTAAGTTGCTAACTGGCATATCAAC 660
DB 601 GTCTGCTTACCCCAATGAGGCGATCTTACAGATTAAGTTGCTAACTGGCATATCAAC 660
QY 661 AGGTCCAAACAAATTAAGAGATGCTGATTTGAGCATGATTTGGAGATGAGATTT 720
DB 661 AGGTCCAAACAAATTAAGAGATGCTGATTTGAGCATGATTTGGAGATGAGATTT 720
QY 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGCTGTTGGCTGATGATCTATTC 780
DB 721 ATGTGCTCTGGGAATTTGGGATTTGGCAATCTGCTGTTGGCTGATGATCTATTC 780
QY 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGCTTAGAA 840
DB 781 CATCTGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGCTTAGAA 840
QY 841 TTGTTTCCCTTCTACTGCGCACATPACGCAATGATTTTCCCTGGAATTAAGTGATAG 900
DB 841 TTGTTTCCCTTCTACTGCGCACATPACGCAATGATTTTCCCTGGAATTAAGTGATAG 900
QY 901 AATTAATAAATTTGATATGATATACACCTCCAACTTTATGATAGTCTTTCTTCCAA 960
DB 901 AATTAATAAATTTGATATGATATACACCTCCAACTTTATGATAGTCTTTCTTCCAA 960
QY 961 TTGTTGCTGATATTTAAAGCATATCTTCTGCGCATGCTTGAAGAAAGATCTGA 1020
DB 961 TTGTTGCTGATATTTAAAGCATATCTTCTGCGCATGCTTGAAGAAAGATCTGA 1020
QY 1021 AGATTAGACATGTTGGGAGAGCTCACCAAAATTTAACAAATCTGAGATATGTTCCAGT 1080
DB 1021 AGATTAGACATGTTGGGAGAGCTCACCAAAATTTAACAAATCTGAGATATGTTCCAGT 1080
QY 1081 TGTAGAACTACGTGTTACACACATTTTGTTCATATTTATATTTATCACCACATT 1140
DB 1081 TGTAGAACTACGTGTTACACACATTTTGTTCATATTTATATTTATCACCACATT 1140
QY 1141 TCAAGTTGTATTTGTTAATAAATGATTTTCAGAGAAAAAATTTTAAAAA 1195
DB 1141 TCAAGTTGTATTTGTTAATAAATGATTTTCAGAGAAAAAATTTTAAAAA 1195

RESULT 5
US-09-895-814-878
; Sequence 878, Application US/09895814
; Publication No. US20020193296A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.

APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals de Bassols, Carlota
APPLICANT: Foy, Teresa
APPLICANT: Fanger, Gary R.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.427C26
CURRENT FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 990
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-895-814-878

Query Match 100.0%; Score 1195; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1.1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGAGACTCAGCGTCAAGCTTAAGCGGAGTGGGTGGCGGAAGCCATATTTATATG 60
DB 1 CCGAGCTCAGCGTCAAGCTTAAGCGGAGTGGGTGGCGGAAGCCATATTTATG 60
QY 61 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAGAACTTTGGAAAAATGAGCTTA 120
DB 61 AATTAATGAAAGCAGAAAGACATCAAAACCAAGAGAACTTTGGAAAAATGAGCTTA 120
QY 121 GGAAGAAATTTAGAAAGACGATTTATTTGATAGACACGGAGAGACCAAGATGCTTA 180
DB 121 GGAAGAAATTTAGAAAGACGATTTATTTGATAGACACGGAGAGACCAAGATGCTTA 180
QY 181 AAAAGACTGAGCTTTGATTTGACCAAAAGCCATGCTGTAATTTGATGCGCTT 240
DB 181 AAAAGACTGAGCTTTGATTTGACCAAAAGCCATGCTGTAATTTGATGCGCTT 240
QY 241 CAGAACTTGAAGCAGACAGAACTTTTCCACAGTGGCACTTCCAAATTTAAATAGCTG 300
DB 241 CAGAACTTGAAGCAGACAGAACTTTTCCACAGTGGCACTTCCAAATTTAAATAGCTG 300
QY 301 CTATTATAGCATCTGACTTTTCTTTTACACTCTTTCTGAGGAGATTAATTCACCTTTAG 360
DB 301 CTATTATAGCATCTGACTTTTCTTTTACACTCTTTCTGAGGAGATTAATTCACCTTTAG 360
QY 361 CAACCTCCATGAAGAAATTTTATTAATTTCCATCTCTGATCAACCAAGTTTTCG 420
DB 361 CAACCTCCATGAAGAAATTTTATTAATTTCCATCTCTGATCAACCAAGTTTTCG 420
QY 421 CAATGTTTTCATCACTCTCTTGGCAATGTTTACCTGCAAGTGTGATAGCAATTTG 480
DB 421 CAATGTTTTCATCACTCTCTTGGCAATGTTTACCTGCAAGTGTGATAGCAATTTG 480
QY 481 TCCAACTTATATGAAACCAAGTAAAGAGTTTCAATTTGATTAAGTGTATG 540
DB 481 TCCAACTTATATGAAACCAAGTAAAGAGTTTCAATTTGATTAAGTGTATG 540
QY 541 TAACAGAAAGAGTTGGGCTTCTAGTTTCTTTTCTGCTGATGCAATTTTATA 600
DB 541 TAACAGAAAGAGTTGGGCTTCTAGTTTCTTTTCTGCTGATGCAATTTTATA 600
QY 601 GTCTGTCTTACCAATGAGCGATCTTACAGATTAAGATTTGCTAACTGGCATATCAAC 660

DB 601 GTCTGTCTTACCAATGAGCGATCTTACAGATTAAGATTTGCTAACTGGCATATCAAC 660
QY 661 AGGTCCAAAGAAATTAAGAAAGATGCTGATTTGAGATGATTTTGGAGATTTG 720
DB 661 AGGTCCAAAGAAATTAAGAAAGATGCTGATTTGAGATGATTTTGGAGATTTG 720
QY 721 ATGTGTCTGGGAATTTGGAGATTTGGCAATGCTGCTGTTGGCTGATCATTTTC 780
DB 721 ATGTGTCTGGGAATTTGGAGATTTGGCAATGCTGCTGTTGGCTGATCATTTTC 780
QY 781 CATCTGTAGTGAATCTTTGACATGAGAGAAATTTCAATATTTACAGCAAGCTAGAA 840
DB 781 CATCTGTAGTGAATCTTTGACATGAGAGAAATTTCAATATTTACAGCAAGCTAGAA 840
QY 841 TTGTTCCTCTTCTGATGAGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGAATG 900
DB 841 TTGTTCCTCTTCTGATGAGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGAATG 900
QY 901 AATTAAGAAATTTGATGATGATATACACTTCACTTTATGATGATGCTTTTCTTCCAA 960
DB 901 AATTAAGAAATTTGATGATGATATACACTTCACTTTATGATGATGCTTTTCTTCCAA 960
QY 961 TTGTTCCTCTGATATTTAAAGCATATATTCCTGCAATGCTTGAAGAAAGATACGA 1020
DB 961 TTGTTCCTCTGATATTTAAAGCATATATTCCTGCAATGCTTGAAGAAAGATACGA 1020
QY 1021 AGATTGACATGTTGGGAGAGCTGACCAAAATTAACAAATGAGATTTGCTCCAGT 1080
DB 1021 AGATTGACATGTTGGGAGAGCTGACCAAAATTAACAAATGAGATTTGCTCCAGT 1080
QY 1081 TGTGAATTTACTGTTTACACATTTTGTTCATATTTATATTTATTCACCAATTT 1140
DB 1081 TGTGAATTTACTGTTTACACATTTTGTTCATATTTATATTTATTCACCAATTT 1140
QY 1141 TCAAGTTGTATTTGTTAATTAATGATTTTCAAGAAAAAATTTTTTTTTT 1195
DB 1141 TCAAGTTGTATTTGTTAATTAATGATTTTCAAGAAAAAATTTTTTTTTT 1195

RESULT 6
US-10-012-896-878
Sequence 878, Application US/10012896
Publication No. US20020183251A1
GENERAL INFORMATION:
APPLICANT: Xu, Jianshun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiansun, Yudi
APPLICANT: Kalos, Michael D.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals de Bassols, Carlota
APPLICANT: Foy, Teresa
APPLICANT: Fanger, Gary R.
APPLICANT: Mantanabe, Yoshihiro
APPLICANT: Meagher, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012.896

CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-10-012-896-878

Query Match 100.0%; Score 1195; DB 5; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 CCGAGACTCAGCGTGAAGCTAAGGGAAGAGTGGTGGCTGAAGCCATCTATTATTAG 60
1 CCGAGACTCAGCGTGAAGCTAAGGGAAGAGTGGTGGCTGAAGCCATCTATTATTAG 60
61 AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGGAATGAAGCTTA 120
61 AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGGAATGAAGCTTA 120
61 AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGGAATGAAGCTTA 120
121 GGAGAAATTTAGAGAGACGATTTATTTGATTAAGACACGGGAGAGACACGATGCTTA 180
121 GGAGAAATTTAGAGAGACGATTTATTTGATTAAGACACGGGAGAGACACGATGCTTA 180
181 AAAAGCCTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGATGAATTTGACGCTT 240
181 AAAAGCCTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGATGAATTTGACGCTT 240
241 CAGAACTTCAGACACACAGAACTCTTTCACAGTGGCACTTGCATTAATTAAGCTG 300
241 CAGAACTTCAGACACACAGAACTCTTTCACAGTGGCACTTGCATTAATTAAGCTG 300
301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGGAAGTAATTCACCTT 360
301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGGAAGTAATTCACCTT 360
361 CAACCTCCCATCAACAATTTTATTAATAATTCATCTGCTGATCAACAAGCTTTC 420
361 CAACCTCCCATCAACAATTTTATTAATAATTCATCTGCTGATCAACAAGCTTTC 420
421 CAATGCTTTCATCACTCTCTTGGCAATTTGATTTGCTGCAAGTGTGATGAGCAAT 480
421 CAATGCTTTCATCACTCTCTTGGCAATTTGATTTGCTGCAAGTGTGATGAGCAAT 480
481 TCCAACTTCAATATGGAACCAAGTATTAAGAGTTTCCAACTGTTGATTAAGTGAAT 540
481 TCCAACTTCAATATGGAACCAAGTATTAAGAGTTTCCAACTGTTGATTAAGTGAAT 540
541 TAAACAAGAAAGAGTGGGCTTCTGAGTTCTTTTCTGCTGATGCAATTTATTA 600
541 TAAACAAGAAAGAGTGGGCTTCTGAGTTCTTTTCTGCTGATGCAATTTATTA 600
601 GTCTGTCTTACCAATGAGGCGATCTTACAGATTAAGAGTTGCTTAACTGGGCAATCAAC 660
601 GTCTGTCTTACCAATGAGGCGATCTTACAGATTAAGAGTTGCTTAACTGGGCAATCAAC 660
661 AGGTCCAAAGAAATTAAGAGAGTGGCTGATTAAGAGATGTTTGGAGAAATGGAATTT 720
661 AGGTCCAAAGAAATTAAGAGAGTGGCTGATTAAGAGATGTTTGGAGAAATGGAATTT 720
721 ATGTGTCTGCGGAATTTGGAGATTTGGAATTAATCTGCTGCTGATGCAATCTATTC 780
721 ATGTGTCTGCGGAATTTGGAGATTTGGAATTAATCTGCTGCTGATGCAATCTATTC 780
781 CATCTGTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTGAGAGCACTAGAA 840
781 CATCTGTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTGAGAGCACTAGAA 840
841 TTGTTTCCCTTCTTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATGATG 900
841 TTGTTTCCCTTCTTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATGATG 900
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901 ATATPAAACAAATTTGATGATACACCTCCACTTTTATGATAGCTTTCTCTTCAA 960
901 ATATPAAACAAATTTGATGATACACCTCCACTTTTATGATAGCTTTCTCTTCAA 960
961 TTGTTTCCCTTCTTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATGATG 1020
961 TTGTTTCCCTTCTTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATGATG 1020
1021 AGATTAGCATGTTGGAGAGCTCAACCAAAATTAACCAAACTGATATGTTCCAGT 1080
1021 AGATTAGCATGTTGGAGAGCTCAACCAAAATTAACCAAACTGATATGTTCCAGT 1080
1081 TGTGAATTTACTGTTTACACATTTTGTTCATATTTGATTAATTTATCAACAACAT 1140
1081 TGTGAATTTACTGTTTACACATTTTGTTCATATTTGATTAATTTATCAACAACAT 1140
1141 TCAAGTTGATTTGTTTAAATTAATTAATTTATTTCAAGGAAAAAATTTTAAAAA 1195
1141 TCAAGTTGATTTGTTTAAATTAATTAATTTATTTCAAGGAAAAAATTTTAAAAA 1195
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RESULT 7

US-10-011-095-1
Sequence 1, Application US/10011095
Publication No. US20030045682A1
GENERAL INFORMATION:
APPLICANT: Afar, Daniel
APPLICANT: Hubert, Rene S.
APPLICANT: Leong, Kahan
APPLICANT: Raitano, Arthur B.
APPLICANT: Saitran, Douglas C.
APPLICANT: Mitchell, Steve Chappell
TITLE OF INVENTION: ANTIBODIES IMMUNOSPECIFIC FOR STREP1 (AS AMENDED)
FILE REFERENCE: 511582001610
CURRENT APPLICATION NUMBER: US/10/011,095
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo Sapiens
US-10-011-095-1

Query Match 100.0%; Score 1195; DB 5; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 CCGAGACTCAGCGTGAAGCTAAGGGAAGAGTGGTGGCTGAAGCCATCTATTATTAG 60
1 CCGAGACTCAGCGTGAAGCTAAGGGAAGAGTGGTGGCTGAAGCCATCTATTATTAG 60
61 AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGGAATGAAGCTTA 120
61 AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGGAATGAAGCTTA 120
61 AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGGAATGAAGCTTA 120
121 GGAGAAATTTAGAGAGACGATTTATTTGATTAAGACACGGGAGAGACACGATGCTTA 180
121 GGAGAAATTTAGAGAGACGATTTATTTGATTAAGACACGGGAGAGACACGATGCTTA 180
181 AAAAGCCTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGATGAATTTGACGCTT 240
181 AAAAGCCTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGATGAATTTGACGCTT 240
181 AAAAGCCTGTGCTTTTGAATTTGACCAAAAGCCCATGCTGATGAATTTGACGCTT 240
241 CAGAACTTCAGACACACAGAACTCTTTCACAGTGGCACTTGCATTAATTAAGCTG 300
241 CAGAACTTCAGACACACAGAACTCTTTCACAGTGGCACTTGCATTAATTAAGCTG 300
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OY 301 CTATATAGCATCTGACTTTTCTTACACTCTTGAGGAGTAATTCACCTTTAG 360
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Db 301 CTATATAGCATCTGACTTTTCTTACACTCTTGAGGAGTAATTCACCTTTAG 360
OY 361 CAACCTCCCATCAACATATTTTATTAATAATTCATCTGTCATCAACAACTTGC 420
    |||
Db 361 CAACCTCCCATCAACATATTTTATTAATAATTCATCTGTCATCAACAACTTGC 420
OY 421 CAATGTTTCCATCACTCTCTTGCAATGTTTACCTGCCAGGTGTATGCAATTC 480
    |||
Db 421 CAATGTTTCCATCACTCTCTTGCAATGTTTACCTGCCAGGTGTATGCAATTC 480
OY 481 TCCAACTTCAATATGGAACCAAGATTAAGAAAGTTTCCAACTGTTGATGATGAT 540
    |||
Db 481 TCCAACTTCAATATGGAACCAAGATTAAGAAAGTTTCCAACTGTTGATGATGAT 540
OY 541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTCTGCTGACTGATGCAATTTA 600
    |||
Db 541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTCTGCTGACTGATGCAATTTA 600
OY 601 GTCTGCTTACCAATGAGGCGATCTCAACGATACAAAGTTGCTTAACTGGGCAATCAAC 660
    |||
Db 601 GTCTGCTTACCAATGAGGCGATCTCAACGATACAAAGTTGCTTAACTGGGCAATCAAC 660
OY 661 AGGTCCAAACAAATTAAGAAAGATGCTGATGAGCATGATGTTGGAGAAATGGAATTT 720
    |||
Db 661 AGGTCCAAACAAATTAAGAAAGATGCTGATGAGCATGATGTTGGAGAAATGGAATTT 720
OY 721 ATGTGCTCTGGAATTTGTTGGATTTGGCAATACCTGCTGTTGGCTGATCTTAATTC 780
    |||
Db 721 ATGTGCTCTGGAATTTGTTGGATTTGGCAATACCTGCTGTTGGCTGATCTTAATTC 780
OY 781 CATCTGTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCACTAGGAA 840
    |||
Db 781 CATCTGTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCACTAGGAA 840
OY 841 TTGTTTCCCTTCACTGAGGCAATACAGCATTTGATTTTGGCTGGAATTAAGTGAATG 900
    |||
Db 841 TTGTTTCCCTTCACTGAGGCAATACAGCATTTGATTTTGGCTGGAATTAAGTGAATG 900
OY 901 AATATAAAACAATTTGATATGATATACACTCCAACTTTTATGATAGCTGTTTCTTCCA 960
    |||
Db 901 AATATAAAACAATTTGATATGATATACACTCCAACTTTTATGATAGCTGTTTCTTCCA 960
OY 961 TTGTTTCTGATATTTTAAAGATATCTATCTGCAATGCTTTGAGAGAAATATCTGA 1020
    |||
Db 961 TTGTTTCTGATATTTTAAAGATATCTATCTGCAATGCTTTGAGAGAAATATCTGA 1020
OY 1021 AGATTAGACATGTTGGGAAGACGTACCAAAATTAACAAACCTGAGATGTTCCAGT 1080
    |||
Db 1021 AGATTAGACATGTTGGGAAGACGTACCAAAATTAACAAACCTGAGATGTTCCAGT 1080
OY 1081 TGTAGATTAATCTGTTTACACATTTTGTTCATATATGATATTTTATCACAACAT 1140
    |||
Db 1081 TGTAGATTAATCTGTTTACACATTTTGTTCATATATGATATTTTATCACAACAT 1140
OY 1141 TCAAGTTTGTATTTGTTAATTAATGATTTTCAAGAAAAAATTTTCAAGAAAAA 1195
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Db 1141 TCAAGTTTGTATTTGTTAATTAATGATTTTCAAGAAAAAATTTTCAAGAAAAA 1195

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RESULT 8

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US-10-010-667A-1
; Sequence 1, Application US/10010667A
; Publication No. US20030055217A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Hubert, Rene S.
; APPLICANT: Leong, Kahan
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Saifan, Douglas C.
; APPLICANT: Mitchell, Steve Chappell

```

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; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 511582001601
; CURRENT APPLICATION NUMBER: US/10/010,667A
; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183
; PRIOR FILING DATE: 1998-06-30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-010-667A-1

Query Match      100.0%; Score 1195; DB 5; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGGTGCTGAAGCCATATTTATAG 60
    |||
Db 1 CCGAGACTCAGCGTCAAGCTAAGCGGAGAGTGGGTGCTGAAGCCATATTTATAG 60
OY 61 AATTATGGAAGCAAGAAAGACATCAAAACCAAGAAATCTTTGAAATGAACCTTA 120
    |||
Db 61 AATTATGGAAGCAAGAAAGACATCAAAACCAAGAAATCTTTGAAATGAACCTTA 120
OY 121 GGAGAAATTTAGAGAAAGACGATTTATTCATTAAGGACAGGAGAGACAGATCTAA 180
    |||
Db 121 GGAGAAATTTAGAGAAAGACGATTTATTCATTAAGGACAGGAGAGACAGATCTAA 180
OY 181 AAAGACTGTGCTTTTGAATTTGCAACAAACAGCCCATCTGATGAATTTGACTGCTT 240
    |||
Db 181 AAAGACTGTGCTTTTGAATTTGCAACAAACAGCCCATCTGATGAATTTGACTGCTT 240
OY 241 CAGAACTTCAACACACACAGAACTTTTCCACAGTGGGACATTTGCAATTAATATGCTG 300
    |||
Db 241 CAGAACTTCAACACACACAGAACTTTTCCACAGTGGGACATTTGCAATTAATATGCTG 300
OY 301 CTATATAGCATCTGACTTTTCTTACACTCTTCTGAGGAGATTAATTCACCTTTAG 360
    |||
Db 301 CTATATAGCATCTGACTTTTCTTACACTCTTCTGAGGAGATTAATTCACCTTTAG 360
OY 361 CAACCTCCCATCAACATATTTTATTAATAATTCATCTGTCATCAACAACTTGC 420
    |||
Db 361 CAACCTCCCATCAACATATTTTATTAATAATTCATCTGTCATCAACAACTTGC 420
OY 421 CAATGTTTCCATCACTCTCTTGCAATGTTTACCTGCCAGGTGTATGCAATTC 480
    |||
Db 421 CAATGTTTCCATCACTCTCTTGCAATGTTTACCTGCCAGGTGTATGCAATTC 480
OY 481 TCCAACTTCAATATGGAACCAAGATTAAGAAAGTTTCCAACTGTTGATGATGAT 540
    |||
Db 481 TCCAACTTCAATATGGAACCAAGATTAAGAAAGTTTCCAACTGTTGATGATGAT 540
OY 541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTCTGCTGACTGATGCAATTTA 600
    |||
Db 541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTCTGCTGACTGATGCAATTTA 600
OY 601 GTCTGCTTACCAATGAGGCGATCTCAACGATACAAAGTTGCTTAACTGGGCAATCAAC 660
    |||
Db 601 GTCTGCTTACCAATGAGGCGATCTCAACGATACAAAGTTGCTTAACTGGGCAATCAAC 660
OY 661 AGGTCCAAACAAATTAAGAAAGATGCTGATGAGCATGATGTTGGAGAAATGGAATTT 720
    |||
Db 661 AGGTCCAAACAAATTAAGAAAGATGCTGATGAGCATGATGTTGGAGAAATGGAATTT 720
OY 721 ATGTGCTCTGGAATTTGTTGGATTTGGCAATACCTGCTGTTGGCTGATCTTAATTC 780
    |||

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Db 721 ATGTCTCTGGAAATTGGGAATTGGCAATACCTGGCTCTGTGGCTGTGACATCTATTC 780
Qy 781 CATCTGTAGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGTAGGAA 840
Db 781 CATCTGTAGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGTAGGAA 840
Qy 841 TTGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAAATAGTGATAG 900
Db 841 TTGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAAATAGTGATAG 900
Qy 901 AATATAACCAATTTGATAGTATATACACCTCCAACTTTATGATAGCTGTTTCTCCAA 960
Db 901 AATATAACCAATTTGATAGTATATACACCTCCAACTTTATGATAGCTGTTTCTCCAA 960
Qy 961 TTGTTTCCCTGATATTTAAAGCATATCTTCTGGCATGCTTGGAGGAAGATACGA 1020
Db 961 TTGTTTCCCTGATATTTAAAGCATATCTTCTGGCATGCTTGGAGGAAGATACGA 1020
Qy 1021 AGATTAGCATGTTGGGAAGAGCTCACCAAAATTAACAACTGAGATATGTTCCAGT 1080
Db 1021 AGATTAGCATGTTGGGAAGAGCTCACCAAAATTAACAACTGAGATATGTTCCAGT 1080
Qy 1081 TGTAGAAATACGTTTACACATTTTGTCAATATGATATTTATTCACCAACAT 1140
Db 1081 TGTAGAAATACGTTTACACATTTTGTCAATATGATATTTATTCACCAACAT 1140
Qy 1141 TCAAGTTTATTTGTTAATAAATGATTTCAAGAAAAAATTTTAAAAA 1195
Db 1141 TCAAGTTTATTTGTTAATAAATGATTTCAAGAAAAAATTTTAAAAA 1195
RESULT 9
US-10-205-823-396
; Sequence 396, Application US/10205823
; Publication No. US20030108963A1
GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbatcheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangt
; APPLICANT: Moneey, Angela M.
; APPLICANT: Glatc, Karen
; APPLICANT: Zhao, Xumei
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
FILE REFERENCE: MRI-044
CURRENT APPLICATION NUMBER: US/10/205,823
CURRENT FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
SOFTWARE: FaestSeq for Windows Version 4.0
SEQ ID NO 396
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-10-205-823-396
Query Match 100.0%; Score 1195; DB 5; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;

Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CGAGACTCAGGTCAAGCTTAAGCGAAGAGTGGTGGCTGAAGCCATCTATTTATAG 60
Db 1 CGAGACTCAGGTCAAGCTTAAGCGAAGAGTGGTGGCTGAAGCCATCTATTTATAG 60
Qy 61 AATTAATGAAAGCAAGAAAGCAATCAACCAAGAAAGAACTTTGAAAAATGAAGCCTA 120
Db 61 AATTAATGAAAGCAAGAAAGCAATCAACCAAGAAAGAACTTTGAAAAATGAAGCCTA 120
Qy 121 GGAGAAATTTAGAAAGACGATTTATGATTAAGAGACGGGAGAGACGACATGCTAA 180
Db 121 GGAGAAATTTAGAAAGACGATTTATGATTAAGAGACGGGAGAGACGACATGCTAA 180
Qy 181 AAAAGACTGTGCTTTGCAATTTGACCAAGGCCCATGCTGATGAATTTGACTGCCCTT 240
Db 181 AAAAGACTGTGCTTTGCAATTTGACCAAGGCCCATGCTGATGAATTTGACTGCCCTT 240
Qy 241 CAGAACTTCAGACACAGAGAACTTTCCACAGTGGCACTTGCATTTAAATATAGCG 300
Db 241 CAGAACTTCAGACACAGAGAACTTTCCACAGTGGCACTTGCATTTAAATATAGCG 300
Qy 301 CTATTATAGCATCTCTGACTTTTCTTACACTCTCTGAGGGAAGTAAATTCACCCCTTAG 360
Db 301 CTATTATAGCATCTCTGACTTTTCTTACACTCTCTGAGGGAAGTAAATTCACCCCTTAG 360
Qy 361 CAACCTCCCATCAACATATTTTAAATTCATCTGTGTCATCAACAAAGTCTTGC 420
Db 361 CAACCTCCCATCAACATATTTTAAATTCATCTGTGTCATCAACAAAGTCTTGC 420
Qy 421 CAATGTTTCCATCTCTCTTGGCATGTTTACCTCCAGTGTGATAGAGCAATTG 480
Db 421 CAATGTTTCCATCTCTCTTGGCATGTTTACCTCCAGTGTGATAGAGCAATTG 480
Qy 481 TCCAACTTCATATATGGAACCAAGTATTAAGAGTTTCCACATTTGTTGATAGTGAATG 540
Db 481 TCCAACTTCATATATGGAACCAAGTATTAAGAGTTTCCACATTTGTTGATAGTGAATG 540
Qy 541 TAAACAAGAAAGCAAGTTGGGCTTCTCAAGTTCTTTTGTCTGTACTGATGCAATTTATA 600
Db 541 TAAACAAGAAAGCAAGTTGGGCTTCTCAAGTTCTTTTGTCTGTACTGATGCAATTTATA 600
Qy 601 GTCTGTCTTACCCATAGAGCGCATCTCAATAGTGTGTAACCTGGGCAATTCAC 660
Db 601 GTCTGTCTTACCCATAGAGCGCATCTCAATAGTGTGTAACCTGGGCAATTCAC 660
Qy 661 AGSTCAACAAATTAAGAAAGATGCTGGATTAAGCATGATGTTTGAATGAGATTT 720
Db 661 AGSTCAACAAATTAAGAAAGATGCTGGATTAAGCATGATGTTTGAATGAGATTT 720
Qy 721 ATGTGTCTCTGGAAATGTGGATTGGCAATCTGCTGTGCTGTGATCATCTATTC 780
Db 721 ATGTGTCTCTGGAAATGTGGATTGGCAATCTGCTGTGCTGTGATCATCTATTC 780
Qy 781 CATCTGTAGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGTAGGAA 840
Db 781 CATCTGTAGTAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAAGTAGGAA 840
Qy 841 TTGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAAATAGTGATAG 900
Db 841 TTGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAAATAGTGATAG 900
Qy 901 AATATAACCAATTTGATAGTATATACACCTCCAACTTTATGATAGCTGTTTCTCCAA 960
Db 901 AATATAACCAATTTGATAGTATATACACCTCCAACTTTATGATAGCTGTTTCTCCAA 960
Qy 961 TTGTTTCCCTGATATTTAAAGCATATCTTCTGGCATGCTTGGAGGAAGATACGA 1020
Db 961 TTGTTTCCCTGATATTTAAAGCATATCTTCTGGCATGCTTGGAGGAAGATACGA 1020
Qy 1021 AGATTAGCATGTTGGGAAGAGCTCACCAAAATTAACAACTGAGATATGTTCCAGT 1080
Db 1021 AGATTAGCATGTTGGGAAGAGCTCACCAAAATTAACAACTGAGATATGTTCCAGT 1080


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; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C29
; CURRENT APPLICATION NUMBER: US/10/294,025
; CURRENT FILING DATE: 2002-11-12
; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-294-025-878

Query Match      100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1.1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CCGAGACTCAGCGTCAAGCTTAAGGCAAGAGTGGGTGCTGAAGCCATCTATTTATAG 60
DB      1 CCGAGACTCAGCGTCAAGCTTAAGGCAAGAGTGGGTGCTGAAGCCATCTATTTATAG 60
QY      61 AATTAATGGAAGCAGAAAAAGCATCAAAACCAAGAAAGACTTTGGAAAATGAAGCTTA 120
DB      61 AATTAATGGAAGCAGAAAAAGCATCAAAACCAAGAAAGACTTTGGAAAATGAAGCTTA 120
QY      121 GGAGAAATTTAGAAAGAGCATTTATTTGCATPAAGGACCGGAGAGACCAAGCTTA 180
DB      121 GGAGAAATTTAGAAAGAGCATTTATTTGCATPAAGGACCGGAGAGACCAAGCTTA 180
QY      181 AAAAGCCTGTGCTTTTGCATTTTGCACCAAGCCCATCTGATGAATTTGACCTT 240
DB      181 AAAAGCCTGTGCTTTTGCATTTTGCACCAAGCCCATCTGATGAATTTGACCTT 240
QY      241 CAGAACTTCAGACACACAGAAACTTTTCCAAGTGGACCTTGCCAAATTAATAAGCTG 300
DB      241 CAGAACTTCAGACACACAGAAACTTTTCCAAGTGGACCTTGCCAAATTAATAAGCTG 300
QY      301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGGAAGTAATTCACCTTTAG 360
DB      301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGGAAGTAATTCACCTTTAG 360
QY      361 CAACCTCCCATCAACAATATTTTATTAATAATTCATCTGGGTCATCAACCAAGCTTGC 420
DB      361 CAACCTCCCATCAACAATATTTTATTAATAATTCATCTGGGTCATCAACCAAGCTTGC 420
QY      421 CAATGTTTCCATCACTCTCTTGGCAATGGTTTACCTGCAAGTGTGATAGCAGCAATTG 480
DB      421 CAATGTTTCCATCACTCTCTTGGCAATGGTTTACCTGCAAGTGTGATAGCAGCAATTG 480
QY      481 TCCAACTTATATGGAACCAAGTATTAAGAAGTTTCCACTTGGCTTGAATGATGATGT 540
DB      481 TCCAACTTATATGGAACCAAGTATTAAGAAGTTTCCACTTGGCTTGAATGATGATGT 540
QY      541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTGTCTGTACTGACATGCAATTATA 600
DB      541 TAAACAAGAAAGAGTTGGGCTTCTCAGTTTCTTTTGTCTGTACTGACATGCAATTATA 600
QY      601 GTCTGTCTTACCAATGAGGCGCATCTCAGATATCAAGATTGCTAAATCGGGCATATCAAC 660
DB      601 GTCTGTCTTACCAATGAGGCGCATCTCAGATATCAAGATTGCTAAATCGGGCATATCAAC 660
QY      661 AGGTCCAAAGAAATTAAGAAGATGCTGATGAGATGAGATGTTGGAAGATGAGAAATTT 720
DB      661 AGGTCCAAAGAAATTAAGAAGATGCTGATGAGATGAGATGTTGGAAGATGAGAAATTT 720
QY      721 ATGTGCTCTGGGAATTTGGGATTTGGCAATACCTGCTGTGTGGCTGTGACATCTATTTC 780
DB      721 ATGTGCTCTGGGAATTTGGGATTTGGCAATACCTGCTGTGTGGCTGTGACATCTATTTC 780
QY      781 CATCTGTGAGTGACTCTTTGACATGAGAGAAATTTCACTAATATTCAGAGCAAGCTAGGA 840
DB      781 CATCTGTGAGTGACTCTTTGACATGAGAGAAATTTCACTAATATTCAGAGCAAGCTAGGA 840
QY      841 TTGTTTCCCTTCTACTGGGCACAATACAGCATTTGATTTTGTGCTGGAATTAAGTGATAG 900
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DB      841 TTGTTTCCCTTCTACTGGGCACAATACAGCATTTGATTTTGTGCTGGAATTAAGTGATAG 900
QY      901 ATATAAAACAATTTGTATGTATACACCTCCAACTTTATGATAGCTGTTCCTTCAA 960
DB      901 ATATAAAACAATTTGTATGTATACACCTCCAACTTTATGATAGCTGTTCCTTCAA 960
QY      961 TTGTTGCTCGATATTTTAAAGCATATCTTCTGCAATGCTTGAAGAAAGATATCTGA 1020
DB      961 TTGTTGCTCGATATTTTAAAGCATATCTTCTGCAATGCTTGAAGAAAGATATCTGA 1020
QY      1021 AGATTAGCATGTTGGGAGACGTCAACCAAAATTAACAAGATGATATGTTCCAGT 1080
DB      1021 AGATTAGCATGTTGGGAGACGTCAACCAAAATTAACAAGATGATATGTTCCAGT 1080
QY      1081 TGTAGAATTAAGCTTTTACACATTTTGTCAATATTTGATATATTTATATCAACCAACTT 1140
DB      1081 TGTAGAATTAAGCTTTTACACATTTTGTCAATATTTGATATATTTATATCAACCAACTT 1140
QY      1141 TCAAGTTTGTATTTTGTATAATAAATGATTTTCAAGGAAAAAATTTTAAAAA 1195
DB      1141 TCAAGTTTGTATTTTGTATAATAAATGATTTTCAAGGAAAAAATTTTAAAAA 1195

RESULT 12
US-10-393-590-35
; Sequence 35, Application US/10393590
; Publication No. US20030190656A1
; GENERAL INFORMATION:
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: BREAST CANCER PROGNASTIC PORTFOLIO
; FILE REFERENCE: CDS 268 US NP
; CURRENT APPLICATION NUMBER: US/10/393,590
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,789
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatencIn version 3.1
; SEQ ID NO 35
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: human
US-10-393-590-35

Query Match      100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1.1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      61 AATTAATGGAAGCAGAAAAAGCATCAAAACCAAGAAAGACTTTGGAAAATGAAGCTTA 120
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QY      121 GGAGAAATTTAGAAAGAGCATTTATTTGCATPAAGGACCGGAGAGACCAAGCTTA 180
DB      121 GGAGAAATTTAGAAAGAGCATTTATTTGCATPAAGGACCGGAGAGACCAAGCTTA 180
QY      181 AAAAGCCTGTGCTTTTGCATTTTGCACCAAGCCCATCTGATGAATTTGACCTT 240
DB      181 AAAAGCCTGTGCTTTTGCATTTTGCACCAAGCCCATCTGATGAATTTGACCTT 240
QY      241 CAGAACTTCAGACACACAGAAACTTTTCCAAGTGGACCTTGCCAAATTAATAAGCTG 300
DB      241 CAGAACTTCAGACACACAGAAACTTTTCCAAGTGGACCTTGCCAAATTAATAAGCTG 300
QY      301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGGAAGTAATTCACCTTTAG 360
DB      301 CTATTATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGGAAGTAATTCACCTTTAG 360
QY      361 CAACCTCCCATCAACAATATTTTATTAATAATTCATCTGGTCAATCAAAAGTCTTGC 420
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Db      ||||| 421 CAATGCTTCATCACTCTCTGGCAATGGTTTAACTCCAGGTGATAGCAATG 480
Qy      ||||| 481 TCCAACTTCATTAATGGAACCAAGATATAGAGTTTCCATTTGGATTAAGTGAATG 540
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Qy      ||||| 541 TAAAGAAAGCAAGTTGGCTTCTCAATTTCTTTTCTGTAATGCAATTTTAA 600
Db      ||||| 541 TAAAGAAAGCAAGTTGGCTTCTCAATTTCTTTTCTGTAATGCAATTTTAA 600
Qy      ||||| 601 GTCTGCTTACCAAGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGCAATCAAC 660
Db      ||||| 601 GTCTGCTTACCAAGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGCAATCAAC 660
Qy      ||||| 661 AGGTCCAAAGAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGGAATTT 720
Db      ||||| 661 AGGTCCAAAGAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGGAATTT 720
Qy      ||||| 721 ATGTGCTCTGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATTTATTC 780
Db      ||||| 721 ATGTGCTCTGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATTTATTC 780
Qy      ||||| 781 CATCTGTAGTGACTCTTTGACATGAGAGAAATTTTACATATTTACAGACAACTAGGA 840
Db      ||||| 781 CATCTGTAGTGACTCTTTGACATGAGAGAAATTTTACATATTTACAGACAACTAGGA 840
Qy      ||||| 841 TTGTTTCCCTTACTGAGGACAAATACGCAATTTGCTGCTGAAATTAAGTGAATG 900
Db      ||||| 841 TTGTTTCCCTTACTGAGGACAAATACGCAATTTGCTGCTGAAATTAAGTGAATG 900
Qy      ||||| 901 ATATAAACAATTTGATGATATACACTTCGAACTTTTATGATAGCTGTTTCTTCCA 960
Db      ||||| 901 ATATAAACAATTTGATGATATACACTTCGAACTTTTATGATAGCTGTTTCTTCCA 960
Qy      ||||| 961 TTGTTTCTCTGATTTTAAAGATATCTATCTCTGCACTGCTTGAAGAAAGATATCTA 1020
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Qy      ||||| 1021 AGATTAGACATGTTGGGAGAGAGCTCACCAAAATTAACAAACTGAGATATGTTCCAGT 1080
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Qy      ||||| 1081 TGTAGATTTACTGTTTACACATTTTGTTCATATTTGATATTTTATTCACCAATTT 1140
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Qy      ||||| 1141 TCAAGTTTGTATTTGTTATTAATATGATTTTCAAGAAAAA 1195
Db      ||||| 1141 TCAAGTTTGTATTTGTTATTAATATGATTTTCAAGAAAAA 1195

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RESULT 13

US-10-393-567-35

Sequence 35, Application US/10393567

Publication No. US2003019473A1

GENERAL INFORMATION:

APPLICANT: MANG, YIXIN

TITLE OF INVENTION: CANCER DIAGNOSTIC PANEL

FILE REFERENCE: CDS 269 US NP

CURRENT APPLICATION NUMBER: US/10/393,567

PRIOR FILING DATE: 2003-03-21

PRIOR APPLICATION NUMBER: 60/368,667

NUMBER OF SEQ ID NOS: 100

SOFTWARE: PatentIn version 3.1

SEQ ID NO 35

LENGTH: 1195

TYPE: DNA

ORGANISM: human

US-10-393-567-35

Query Match

100.0%; Score 1195; DB 6; Length 1195;

Best Local Similarity

Pred. No. 1.1e-281;

Matches 1195; Conservative

0; Mismatches 0; Indels 0; Gaps 0;

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Qy      ||||| 61 AATTATGGAAGACAGAAAAAGCATCAAAACCAAGAACTTTGGAAAAATGAACTTA 120
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Qy      ||||| 121 GGAAGAAATTTAAGAAAGAGCATTTATTTGATTAAGAACAGGAGACCATGCTTA 180
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Qy      ||||| 361 CAAGTCCCATCAACAAATTTTATTAATTTTCAATCTGCTGATCAACAAAGTCTTGC 420
Db      ||||| 361 CAAGTCCCATCAACAAATTTTATTAATTTTCAATCTGCTGATCAACAAAGTCTTGC 420
Qy      ||||| 421 CAATGTTTCCATCACTCTTTGGAATGTTTACCTGTCAGTGTGATAGCAAGATTTG 480
Db      ||||| 421 CAATGTTTCCATCACTCTTTGGAATGTTTACCTGTCAGTGTGATAGCAAGATTTG 480
Qy      ||||| 481 TCCAACTTATTAATGGAACCAAGATTAAGAGATTTCCACATTTGATTAAGTGAATG 540
Db      ||||| 481 TCCAACTTATTAATGGAACCAAGATTAAGAGATTTCCACATTTGATTAAGTGAATG 540
Qy      ||||| 541 TAAAGAAAGAGATTTGGGCTTCTCAAGTTCTTTTGTGCTGATGCAATTTTAA 600
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Qy      ||||| 601 GTCTGCTTACCAAGAGGCGATCTTACAGATACAAAGTTGCTAACTGGGATATCAAC 660
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Qy      ||||| 661 AGGTCCAAAGAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGGAATTT 720
Db      ||||| 661 AGGTCCAAAGAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGGAATTT 720
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Qy      ||||| 781 CATCTGTAGTGACTCTTTGACATGAGAGAAATTTTCAATATTTGAGAGCAAGTGAAG 840
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Qy      ||||| 841 TTGTTTCCCTTACTGAGGACAAATACGCAATTTGATATTTTCAAGAAAGTGAATG 900
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Qy      ||||| 901 ATATAAACAATTTGATGATATACACCTTCACTTATGATGATGATGATTTCTTCCA 960
Db      ||||| 901 ATATAAACAATTTGATGATATACACCTTCACTTATGATGATGATGATTTCTTCCA 960
Qy      ||||| 961 TTGTTTCTCTGATTTTAAAGCATATTTCTTGCATGCTTGAAGAAAGATATCTGA 1020
Db      ||||| 961 TTGTTTCTCTGATTTTAAAGCATATTTCTTGCATGCTTGAAGAAAGATATCTGA 1020

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Db 961 TTGTTGTCCTGATATTTAAAGACATATCTTCCTGCGCATGCTTGAGAGAAAGATACCTGA 1020
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Db 1021 AGATTAGACATGTTGGGAGAGCGTCACCAAAATTTACAAAACGTGATGTTCCAGT 1080
Qy 1081 TGTAGAAATTAAGTATGACACATTTTGTTCATATTTGATATATTTATATGACCAACATTT 1140
Db 1081 TGTAGAAATTAAGTATGACACATTTTGTTCATATTTGATATATTTATATGACCAACATTT 1140
Qy 1141 TCAGTTTGTATTTGTTAATTAATGATTTATTCAGAGAAAAAATTTTTTTTTT 1195
Db 1141 TCAGTTTGTATTTGTTAATTAATGATTTATTCAGAGAAAAAATTTTTTTTTT 1195

RESULT 14
US-10-394-087-35
; Sequence 35, Application US/10394087
; Publication No. US20030194734A1
; GENERAL INFORMATION:
; APPLICANT: Jatkoe, Tim
; TITLE OF INVENTION: SELECTION OF MARKERS
; FILE REFERENCE: CDS 265 US NP
; CURRENT APPLICATION NUMBER: US/10/394,087
; CURRENT FILING DATE: 2003-03-21
; PRIOR APPLICATION NUMBER: 60/368,790
; PRIOR FILING DATE: 2002-03-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: human
US-10-394-087-35

Query Match 100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGAAGCTGACGGTCAAGTATAGGCGGAGAGTGGGTGCTGAAGCCATCTATTTATAG 60
Db 1 CCGAAGCTGACGGTCAAGTATAGGCGGAGAGTGGGTGCTGAAGCCATCTATTTATAG 60
Qy 61 AATTAATGAGAAAGACAGAAAGACATCAAAACCAAGAGAACTTTGGAAAATGAAAGCTTA 120
Db 61 AATTAATGAGAAAGACAGAAAGACATCAAAACCAAGAGAACTTTGGAAAATGAAAGCTTA 120
Qy 121 GGAGAAATTTAGAGAGAGATTTATTTGATATAGGACACGGAGAGACCGACATGCTTA 180
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Qy 361 CAAGTTCCCATCAAAATATTTTATTAATTCAGATCCGTCATCAACAAAGTCTTG 420
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Qy 421 CAATGTTTCCATCACTCTCTTGCGCATTTGGTTTACCTGCGAGTGTATAGCAGCAATG 480
Db 421 CAATGTTTCCATCACTCTCTTGCGCATTTGGTTTACCTGCGAGTGTATAGCAGCAATG 480
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Qy 541 TAAACAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTAAGTCAATTTATA 600
Db 541 TAAACAGAAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTCTGTAAGTCAATTTATA 600
Qy 601 GTCTGTCTTACCCATAGAGGATTCCTACAGATCAAGTGGCTTAACCTGGGCTATCAAC 660
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Db 661 AGGTCCAAACAAATTAAGAGAGATGCTGATTTGAGCATGATGTTTGGAGATGAGATTT 720
Qy 721 ATGTGCTCTGGAAATTTGGGATTTGGCAATCTGCGCTCTGTGGCTGTGACATCTATTC 780
Db 721 ATGTGCTCTGGAAATTTGGGATTTGGCAATCTGCGCTCTGTGTGACATCTATTC 780
Qy 781 CATCTGATGATGATCTTTTTCATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGAG 840
Db 781 CATCTGATGATGATCTTTTTCATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGAG 840
Qy 841 TTGTTTCCCTCTAATGAGGACAAATACAGCATTTGATTTTGCCTGGAATAGTGATAG 900
Db 841 TTGTTTCCCTCTAATGAGGACAAATACAGCATTTGATTTTGCCTGGAATAGTGATAG 900
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Db 901 ATATAAACAAATTTGATATGATATACACCTCCAACTTTTATGATAGCTGTTTCTTCCAA 960
Qy 961 TTGTTGCTCTGATATTTAAAGCAATACATTTCTGCGCATGCTGAGAAAGATGATGTA 1020
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Db 1021 AGATTAGACATGTTGGAGAGAGCGTCACCAAAATTTAACAAACGTAGATGTTCCAGT 1080
Qy 1081 TGTAGAAATTAAGTATGACACATTTTGTTCATATTTGATATATTTATATGACCAACATTT 1140
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RESULT 15
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; Sequence 713, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afari, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Gineberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15

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; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 713
; LENGTH: 1195
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; ORGANISM: Homo sapiens
US-10-295-027-713

Query Match      100.0%; Score 1195; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 1,1e-281;
Matches 1195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      1      CCGAGACTCAGCGTCAAGCTTAAGCGGAGAGTGGGTGGCTGAAGCCATACATATTTATAG 60
QY      61      AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAAGACTTTGGAAAAATGAGGCTTA 120
DB      61      AATTAATGGAAGCAGAAAAGACATCAACAACCAAGAAGACTTTGGAAAAATGAGGCTTA 120
QY      121      GGAAGAAATTTAGAAGAAAGAGATTTATTGCAATTAAGACACGGAGAGACCAAGCATGTCTAA 180
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QY      181      AAGAGACTGTGCTTTTGCATTTTGCAACCAACAGCCCATGCGATGAAATTTGACCTGCCCTT 240
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QY      361      CAACCTTCCCATCAACAATATTTTATTAATAATCCATCCGATCATCAACAAGCTTGGC 420
DB      361      CAACCTTCCCATCAACAATATTTTATTAATAATCCATCCGATCATCAACAAGCTTGGC 420
QY      421      CAATGTTTTCATCACTCTCTTGGCAATGGTTTACCTGACAGGTGATAGCAGCAATG 480
DB      421      CAATGTTTTCATCACTCTCTTGGCAATGGTTTACCTGACAGGTGATAGCAGCAATG 480
QY      481      TCGAATCTCAATAATGGAACCAAGATTAAGAAAGTTTCCCAATGGTTGATTAAGTGAATG 540
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DB      661      AGGTCAACAAATAAAGAAAGATGCTGATGAGCATGATGTTTGGAGATGAGATTT 720

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DB      721      ATGTGCTCGGGAATTTGGGAATTTGGCAATTAATCGGTCTGTTGGCTGATCACTATTC 780
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QY      1021      AGATTAGACATGCTTGGGAAAGACGTCAACCAAAATTAACAAACTGAGATATGTTCCAGT 1080
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QY      1081      TGTAGAATTAATCTGTTTACACACTTTTGTTCATATTTGATATATTTTATCACCAACTT 1140
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

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Run on: December 6, 2005, 16:30:04 ; Search time 948 Seconds

(without alignments)
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Delpop 6.0 , Delpext 7.0

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Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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-TRANS-human40.ccd -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pco -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US10750262@cgn 1 1 1026 @runat.06122005.162947.15675
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-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database:

Published Applications NA Main:
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9: /cgn2_6/ptodaca/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodaca/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1790	100.0	1177	6	US-10-696-639-15
2	1790	100.0	1193	8	US-10-165-044-1
3	1790	100.0	1193	7	US-10-408-009-1
4	1790	100.0	1193	8	US-10-857-785-1
5	1790	100.0	1193	8	US-10-856-109-1
6	1790	100.0	1193	8	US-10-830-899-2
7	1790	100.0	1193	8	US-10-753-195-1
8	1790	100.0	1193	9	US-10-752-421-1

9	1790	100.0	1193	9	US-10-861-662-2	Sequence 2, Appli
10	1790	100.0	1195	3	US-09-759-143-878	Sequence 878, App
11	1790	100.0	1195	3	US-09-780-669-878	Sequence 878, App
12	1790	100.0	1195	3	US-09-822-827-878	Sequence 878, App
13	1790	100.0	1195	3	US-09-895-793-878	Sequence 878, App
14	1790	100.0	1195	3	US-09-895-793-878	Sequence 878, App
15	1790	100.0	1195	5	US-10-012-896-878	Sequence 878, App
16	1790	100.0	1195	5	US-10-011-095-1	Sequence 1, Appli
17	1790	100.0	1195	5	US-10-010-667A-1	Sequence 1, Appli
18	1790	100.0	1195	5	US-10-205-823-396	Sequence 396, App
19	1790	100.0	1195	6	US-10-144-678A-878	Sequence 878, App
20	1790	100.0	1195	6	US-10-294-025-878	Sequence 878, App
21	1790	100.0	1195	6	US-10-393-550-35	Sequence 35, Appl
22	1790	100.0	1195	6	US-10-393-567-35	Sequence 35, Appl
23	1790	100.0	1195	6	US-10-394-087-35	Sequence 35, Appl
24	1790	100.0	1195	6	US-10-295-027-713	Sequence 713, App
25	1790	100.0	1195	6	US-10-295-027-1130	Sequence 1130, Ap
26	1790	100.0	1195	8	US-10-643-795A-16	Sequence 16, Appl
27	1790	100.0	1195	8	US-10-643-795A-42	Sequence 42, Appl
28	1790	100.0	1195	9	US-10-750-262-1	Sequence 1, Appli
29	1790	100.0	1195	9	US-10-948-518-16	Sequence 16, Appli
30	1790	100.0	1195	9	US-10-948-518-42	Sequence 42, Appl
31	1790	100.0	1195	9	US-10-956-157-1811	Sequence 1811, Ap
32	1790	100.0	1195	9	US-10-956-157-7046	Sequence 7046, Ap
33	1790	100.0	1195	9	US-10-858-887-1	Sequence 1, Appli
34	1790	100.0	1195	9	US-10-631-467-428	Sequence 428, App
35	1790	100.0	1195	10	US-11-051-454-396	Sequence 396, App
36	1790	100.0	1201	7	US-10-425-114-16445	Sequence 16445, A
37	1790	100.0	1277	3	US-09-814-353-19910	Sequence 1910, A
38	1790	100.0	1330	7	US-10-755-889-191	Sequence 191, App
39	1732.5	96.8	1365	8	US-10-830-899-6	Sequence 6, Appli
40	1732.5	96.8	1365	9	US-10-861-662-6	Sequence 6, Appli
41	1732.5	96.3	1354	8	US-10-723-860-5120	Sequence 5120, Ap
42	1503	84.0	1211	9	US-10-631-467-1300	Sequence 1300, Ap
43	1358.5	75.9	3627	5	US-10-011-095-6	Sequence 6, Appli
44	1358.5	75.9	3627	5	US-10-010-667A-6	Sequence 6, Appli
45	1358.5	75.9	3627	6	US-10-165-044-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-10-696-639-15
Sequence 15, Application US/10696639
Publication No. US20050037439A1
GENERAL INFORMATION:
APPLICANT: Pharmacia Corporation
INVENTOR: Bourner, Maureen J.
TITLE OF INVENTION: DIFFERENTIALLY EXPRESSED GENES INVOLVED IN CANCER, THE
FILE REFERENCE: 01040/1
CURRENT APPLICATION NUMBER: US/10/696, 639
CURRENT FILING DATE: 2003-10-29
PRIOR APPLICATION NUMBER: 60/422,176
NUMBER OF SEQ ID NOS: 3114
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 1177
TYPE: DNA
ORGANISM: homo sapiens
US-10-696-639-15

Alignment Scores:
Pred. No.: 1,63e-195
Score: 1790.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 100.00%
DB: 8
Gaps: 0
US-10-750-262-2 (1-339) x US-10-696-639-15 (1-1177)

Length: 1177
Matches: 339
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

QY 1 MetGluSerArgLysAsp11eThraSngIngluLeuTrpLysMetLysProArgArg 20
Db ATGGAAAGCAGAAAGACATCAAAACCAAGAGAACTTGGAAAATGAGCTGAGAGA 125
QY 21 AsnLeuGluGluAspAspTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
Db AATTAGAAAGAGAGATATTGTCATAAGACACGGGAGAGACAGCATGTCTAAAGAA 185
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
Db CCTGGCTTTGGCATTTGGACCAAAACAGCCATGCTGAGAAATTTGACTGCCCTTCAGAA 245
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProLysLeuAlaAlaIle 80
Db CTTCAGACACACAGGAACTTTCCACAGTGGCACTGCCAATTAAATAGCTGCTATT 305
QY 246 CTTCAGACACACAGGAACTTTCCACAGTGGCACTGCCAATTAAATAGCTGCTATT 305
Db 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
QY 306 ATAGCATCTCTGACTTTTCTTACACTCTTCTGAGGAGATTAATTCACCTTTAGCAACT 365
QY 101 SerHisGlnGlnTyrPheTyrLysIleProLysLeuValIleAsnLysValLeuProMet 120
Db TCCCATCAACAATATTATTAATAATTCATCAATCTGGTATCAACAAGCTTTGCCAAATG 425
QY 121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaAlaIleValGln 140
Db GTTTCATCATCTCTCTGGCATTTGCTTACCTGCCAGTGTGATACAGCAATGTGCCAA 485
QY 141 LeuHisAsnGlyThrLysTyrLysLysPheProHisTyrLeuAspLysTyrMetLeuThr 160
Db CTTCATTAATGGAACCAAGTATTAAGATTTCCACATTTGGATGATGATGATGATTAACA 545
QY 161 ArgLysGlnPheGlyLeuLeuSerPhePhePheAlaValLeuHisAlaIleTyrSerLeu 180
Db AGAAACAGATTTGGCTTCTCAGATTTCTTTTGTCTGTACTGCAATGCAATTTATAGTCTG 605
QY 181 SerTyrProMetArgArgSerTyrArgTyrLysLeuLeuAsnTrpAlaTyrGlnGlnVal 200
Db TCTTACCCAAATGAGCGCATCTTACAGTACAGTGTCTAACTGGCATTCACAGCTC 665
QY 201 GlnGlnAsnLysGluAspAlaTyrPheGlnHisAspValTyrPheMetGluLysTyrVal 220
Db CAAACAAATTAAGAAAGATGCTGATTTGACATGATGATTTGAGAAATGAGATTTATGCTG 725
QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValThrSerIleProSer 240
Db TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGACATCTATTCACATCT 785
QY 241 ValSerAspSerLeuThrTrpArgGluPheHisTyrIleGlnSerLysLeuGlyIleVal 260
Db GTGAGTACTCTTGGACATGAGAGAAATTTCACTATTTCCAGACCAAGCTTAGGAATGCTT 845
QY 261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTyrAsnLysTyrPheAspIle 280
Db TCCCTTTCTACTGGGACACATACAGCATTTGATTTTGGCTGGAATTAAGTGTGATGATTA 905
QY 281 LysGlnPheValTyrTyrThrProProThrPheMetIleAlaValPheLeuProLysVal 300
Db AAACAAATTTGATGATATACACCTCCAACTTTATGATAGCTGTTTCTTCCTTCATTTGTT 965
QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
Db GTCCGATATTAAAGCATCTATTTCTGCCATCTTCAGAGAGAAATATCTGAGATTT 1025
QY 321 ArgHisGlyTyrPGLuAspValThrLysIleAsnLysThrGluLysCysSerGlnLeu 339
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RESULT 2
US-10-165-044-1
; Sequence 1, Application US/10165044
; Publication No. US20030149531A1
; GENERAL INFORMATION:

APPLICANT: Agensys, Inc.
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas Safiran
APPLICANT: Daniel E.H. Afar
APPLICANT: Steven Chappell Mitchell
APPLICANT: Mary Faris
APPLICANT: Aya Jakobovits
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 51158-20016.02
CURRENT APPLICATION NUMBER: US/10/165,044
PRIOR APPLICATION NUMBER: US 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: US 60/091,183
PRIOR FILING DATE: 1998-06-30
PRIOR APPLICATION NUMBER: US 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US 09/455,486
PRIOR FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: WO 99/62941
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: PCT/US00/33040
PRIOR FILING DATE: 2000-12-06
NUMBER OF SEQ ID NOS: 57
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (64)...(1191)
US-10-165-044-1
Alignment Scores:
Pred. No.: 1,66e-195 Length: 1193
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
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QY 1 MetGluSerArgLysAsp11eThraSngIngluLeuTrpLysMetLysProArgArg 20
Db ATGGAAAGCAGAAAGACATCAAAACCAAGAGAACTTGGAAAATGAGCTGAGAGA 123
QY 21 AsnLeuGluGluAspAspTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
Db AATTAGAAAGAGAGATATTGTCATAAGACACGGGAGAGACAGCATGTCTAAAGAA 183
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
Db CCTGGCTTTGGCATTTGGACCAAAACAGCCATGCTGAGAAATTTGACTGCCCTTCAGAA 243
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProLysLeuAlaAlaIle 80
Db CTTCAGACACACAGGAACTTTCCACAGTGGCACTGCCAATTAAATAGCTGCTATT 303
QY 246 CTTCAGACACACAGGAACTTTCCACAGTGGCACTGCCAATTAAATAGCTGCTATT 303
Db 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
QY 306 ATAGCATCTCTGACTTTTCTTACACTCTTCTGAGGAGATTAATTCACCTTTAGCAACT 363
QY 101 SerHisGlnGlnTyrPheTyrLysIleProLysLeuValIleAsnLysValLeuProMet 120
Db TCCCATCAACAATATTATTAATAATTCATCAATCTGGTATCAACAAGCTTTGCCAATG 423
QY 121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaAlaIleValGln 140
Db GTTTCATCATCTCTCTGGCATTTGCTTACCTGCCAGTGTGATGATGATGATGATTAACA 483

QY 141 LeuH1a5nG1YThrIly5Tyly5PheProH1a5TrpleuA5pLy5TpmleuThr 160
 DB 484 CTTCAATAATGGAACCAAGTATAGAGATTCCACATTGGTGAATAGCGATTGTAACA 543
 QY 161 ArgLy5GlnPheLysLeuSerPhePheAlaValleuH1a5aIleTySerLeu 180
 DB 544 AGAAACAGTTGGGCTTCACACTTTCTTTTGTCTGACTGATCCAAATTTATCTG 603
 QY 181 SerTyPromeArGArGserTyArgTyLy5LeuLeuA5nTPalaTyGlnGlnVal 200
 DB 604 TCTTACCACATGAGGAGATCTACAGATACAGATTGCTAAACGCGCATATCAACAGT 663
 QY 201 GlnGlnA5nLy5GlnA5pAlaTPrllegLuh1a5pValTPraGmetGluIleTyVal 220
 DB 664 CAACAAAATTAAGAAGATCTCGATGATTGACATGATTGGAGAAAGAGATTATG 723
 QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuAlaValThrSerIleProser 240
 DB 724 TCTCGGGAATGTGGGATTTGGCAATACAGCTGCTGCTGGCTGACATCTTCCATCT 783
 QY 241 ValSerA5pSerLeuThrTPraGlnPheH1a5TyrllegLysLeuGlyIleVal 260
 DB 784 GTGAGTACCTTTTACATGAGAGAAATTTCACTATTTCCAGAGCAAGCTAGAAATG 843
 QY 261 SerLeuLeuGlyThrIleH1a5aIleuIlePheAlaTPra5nLy5TprIleA5pIle 280
 DB 844 TCCCTTACTAGGAGCAATACACCATTTGATTTTCCCTGGAATTAAGTAAATATA 903
 QY 281 LysGlnPheValTPTyThrProProThrPheMetIleAlaValPheLeuProIleVal 300
 DB 904 AAACAATTTGATGATATACACCTCACTTTATGATAGCTGTTTCTTCCATTTGT 963
 QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuA5pLy5IleLeuIle 320
 DB 964 GTCTGATATTTAAAGCATACTATCTCGCATGCTTGAGAGAAAGATATCTGAAGATT 1023
 QY 321 ArgH1a5nG1YThrGluA5pValThrLy5IleA5nLy5ThrGluIleCysSerGlnLeu 339
 DB 1024 AGACATGGTTGGAAAGACGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1080
 RESULT 3
 US-10-408-009-1
 ; Sequence 1, Application US/10408009
 ; Publication No. US2004007219661
 ; GENERAL INFORMATION:
 ; APPLICANT: Daniel E. Afar
 ; APPLICANT: Rene S. Hubert
 ; APPLICANT: Arthur B. Raitano
 ; APPLICANT: Douglas C. Saffran
 ; APPLICANT: Stephen C. Mitchell
 ; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
 ; FILE REFERENCE: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
 ; CURRENT APPLICATION NUMBER: US/10/408,009
 ; PRIOR FILING DATE: 1999-12-06
 ; PRIOR APPLICATION NUMBER: 09/455,486
 ; PRIOR FILING DATE: 1999-06-01
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 1
 ; LENGTH: 1193
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (64)...(1083)
 US-10-408-009-1
 Alignment Scores:
 Pred. No.: 1,666-195 Length: 1193

Score: 1790.00 Matches: 339
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 7 Gaps: 0
 US-10-750-262-2 (1-339) x US-10-408-009-1 (1-1193)
 QY 1 MetGlnSerArgLy5A5pIleThrA5nGlnGlnLeuTPryLysMetLysProArg 20
 DB 64 ATGGAAGAGAAAAGACATCAACAAACCAAGAGAACTTTGAAATAGAGCTTAGAGA 123
 QY 21 A5nLeuGlnA5pA5pTyIleuH1a5A5pThrgIyGlnThrSerMetLeuLy5Arg 40
 DB 124 AATTTAAGAAGAGCATTTATTTGCATTAAGACACAGGAGAGACCATGATGAAAAAGA 183
 QY 41 ProValLeuLeuH1a5nGlnThraH1a5aIleA5pGlnPheA5pCysPProserGlu 60
 DB 184 CTTGCTTTTGGCATTTTCCACCAACACCCATGCTGATGAATTTGACTGCTCCAGAA 243
 QY 61 LeuGlnH1a5nGlnLeuPheProGlnTPH1a5nProIleLy5IleAlaIle 80
 DB 244 CTTGAGACACACAGGAATCTTTCCACAGTGGCATTTCCAAATTAATAGCTGCTAT 303
 QY 81 IleA5pSerLeuThrPheLeuTyThrIleuA5pGlnValIleH1a5pProLeuAlaThr 100
 DB 304 ATACATCTCTGACTTTTCTTACATCTTCTGAGGAGAAATTAATCCATCTTGAACA 363
 QY 101 SerH1a5nGlnTyPheTyLy5IleProIleLeuValIleA5nLy5ValLeuProMet 120
 DB 364 TCCCATCAACAATATTTTAAATTCATCTGCTGATCAACAAAGCTTCCCAATG 423
 QY 121 ValSerIleThrLeuLeuAlaLeuValTyIleuProGlyValIleAlaIleValGln 140
 DB 424 GTTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGATAGACGATTTGTCCA 483
 QY 141 LeuH1a5nG1YThrIly5Tyly5PheProH1a5TrpleuA5pLy5TpmleuThr 160
 DB 484 CTTCAATAATGGAACCAAGTATAGAGATTCCACATTGGTGAATAGCGATTGTAACA 543
 QY 161 ArgLy5GlnPheLysLeuSerPhePheAlaValleuH1a5aIleTySerLeu 180
 DB 544 AGAAACAGTTGGGCTTCACACTTTCTTTTGTCTGACTGATCCAAATTTATCTG 603
 QY 181 SerTyPromeArGArGserTyArgTyLy5LeuLeuA5nTPalaTyGlnGlnVal 200
 DB 604 TCTTACCACATGAGGAGATCTACAGATACAGATTGCTAAACGCGCATATCAACAGT 663
 QY 201 GlnGlnA5nLy5GlnA5pAlaTPrllegLuh1a5pValTPraGmetGluIleTyVal 220
 DB 664 CAACAAAATTAAGAAGATGCTGGATTTGACATGATCTTTGAGAAATGCAATTTATG 723
 QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuAlaValThrSerIleProser 240
 DB 724 TCTCGGGAATGTGGGATTTGGCAATACAGCTGCTGCTGGCTGACATCTTCCATCT 783
 QY 241 ValSerA5pSerLeuThrTPraGlnPheH1a5TyrllegLysLeuGlyIleVal 260
 DB 784 GTGAGTACCTTTTACATGAGAGAAATTTCACTATTTCCAGAGCAAGCTAGAAATG 843
 QY 261 SerLeuLeuGlyThrIleH1a5aIleuIlePheAlaTPra5nLy5TprIleA5pIle 280
 DB 844 TCCCTTACTAGGAGCAATACACCATTTGATTTTCCCTGGAATTAAGTAAATATA 903
 QY 281 LysGlnPheValTPTyThrProProThrPheMetIleAlaValPheLeuProIleVal 300
 DB 904 AAACAATTTGATGATATACACCTCACTTTATGATAGCTGTTTCTTCCATTTGT 963
 QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuA5pLy5IleLeuIle 320
 DB 964 GTCTGATATTTAAAGCATACTATCTCGCATGCTTGAGAGAAAGATATCTGAAGATT 1023
 QY 321 ArgH1a5nG1YThrGluA5pValThrLy5IleA5nLy5ThrGluIleCysSerGlnLeu 339

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Db 1024 AGACATGTTGGGAAGACGTACCCAAATTAACAAACTGAGATATGTTCCAGTTG 1080
RESULT 4
US-10-857-785-1
; Sequence 1, Application US/10857785
; Publication No. US20040219162A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 511582001607
; CURRENT APPLICATION NUMBER: US/10/857,785
; CURRENT FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64)...(1083)
; US-10-857-785-1
Alignment Scores:
Pred. No.: 1,66e-195 Length: 1193
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB:
US-10-750-262-2 (1-339) x US-10-857-785-1 (1-1193)
QY 1 MetGluSerArgLyAspIleThrAsnGlnGluLeuTrpLysMetLysProAlaArg 20
DB 64 ATGGAAGCAGAAAAGACATCACAAACCAAGAAAGAACTTTGAAAGAAAGCCTTAGAGA 123
QY 21 AsnLeuGlnGluAspArgTrpLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 124 AATTGAGAGAGAGCGATTATTTTCATTAAGACACGGAGAGACACAGCATGCTAAAGAGA 183
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 184 CCGTGCTTTTGGCATTTGGACCAAAACGCCCACTGTGATGAATTTGACTGCCCTTCAGAA 243
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProIleLysIleAlaAlaIle 80
DB 244 CTTAGACACACAGAAAGCTTTTCCACAGTGGCAGCTTGCCAAATTAAGAGCTGCTATT 303
QY 81 IleAlaSerLeuThrPheLeuTrpThrLeuLeuArgGluValIleHisProLeuAlaThr 100
DB 304 ATAGCATCTGACTTTTCTTTTACACTCTTCTGAGGAGAGTAATTCACCTTTAGCAACT 363
QY 101 SerHisGlnGlnTrpPheTrpLysIleProIleLeuValIleAsnLysValLeuProMet 120
DB 364 TCCCATCAACAATATTTTATTAATAATTCCAATCTGGGTCATCAACAAGCTTGGCAATG 423
QY 121 ValSerIleThrLeuAlaLeuValTrpLeuProGlnValIleAlaAlaIleValGln 140
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Db 424 GTTTCATCACTCTCTGGCAGTTGTTTACCTGCCAGGTGTGATAGACGAATTTGCCAA 483
QY 141 LeuHisAsnGlnTrpLysTrpLysLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
DB 484 CTTCAATATGGAACCAAGATATMAAGATTTCCACATTTGTTGATTAAGATGATTTAAACA 543
QY 161 ArgLysGlnPheGlyLeuLeuSerPhePhePheAlaValLeuHisAlaIleTrpSerLeu 180
DB 544 AGAAGCAGTTGGGCTTCTCAAGTTCTTTTCTGTAAGTCACTGACATTTATATAGTCTG 603
QY 181 SerTrpProMetArgArgSerTrpArgTrpLysLeuLeuAsnTrpAlaTrpGlnVal 200
DB 604 TCTTATCCCAATGAGGCGATCTTACAGATATCAAGTTGCTMAACTGGGCAATTAACAAGGTC 663
QY 201 GlnGlnAsnLysGluAspAlaTrpIleGlnHisAspValTrpArgMetGlnIleTrpVal 220
DB 664 CAACAAATTAAGAGAGATGCTGATTAAGCATGATGTTTGAGAGATAGCATTTATATGTC 723
QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuAlaValThrSerIleProSer 240
DB 724 TCTCTGGGAATTTGGGATTTGGCAATTAAGTCTGCTGTTGGCTGTACATTAATTCATCT 783
QY 241 ValSerAspSerLeuThrTrpArgGluPheHisTrpIleGlnSerLysLeuGlyIleVal 260
DB 784 GTGAGTGACTCTTTCACATGAGAGAAATTTCACTATATTCAGAGCAAGCACTAGGAATTT 843
QY 261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
DB 844 TCCCTTCTACTGGGACCAATACACCAATGATTTTTCCTGAAATGATGATATATA 903
QY 281 LysGlnPheValTrpTrpThrProProThrPheMetIleAlaValPheLeuProIleVal 300
DB 904 AAACCAATTTGATGATATACACTTCCACTTTATGATAGCTGTTTCTCCAAATGTTT 963
QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysIleLeuLysIle 320
DB 964 GTCCGTATATTTTAAAGCATATCTATCTCGCCATGCTTGAGGAGAGATGATGAAATTT 1023
QY 321 ArgHisGlyTrpGluAspValThrLysIleAsnLysThrGlnIleCysSerGlnLeu 339
DB 1024 AGACATGTTGGGAAGACGTACCCAAATTAACAAACTGAGATATGTTCCAGTTG 1080
RESULT 5
US-10-856-109-1
; Sequence 1, Application US/10856109
; Publication No. US20040219591A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 511582001606
; CURRENT APPLICATION NUMBER: US/10/856,109
; CURRENT FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
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LOCATION: (64) ... (1083)
US-10-856-109-1

Alignment Scores:
Pred. No.: 1,666-195 Length: 1193
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 8 Gaps: 0

US-10-750-262-2 (1-339) x US-10-856-109-1 (1-1193)

QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProArg 20
DB 64 ATGGAAGAGAGAAAGACATCAACAAAGAAAGAACTTGGAAATGAAGCTTAGAGA 123
QY 21 AsnLeuGluLysAspTrpLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 124 AATTAGAGAGAGACATTAATTTGATTAAGACACGGGAGAGACAGCATGCTTAAGAAA 183
QY 41 ProValLeuLeuHisLeuHisGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 184 CTTGCTCTTTGCAATTTGCACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCAGAA 243
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLysProIleLysIleAlaIle 80
DB 244 CTTAGAGACACAGAGAACTCTTCCACAGTGGCACTTCCCAATTAATAGCTGCTATT 303
QY 81 IleAlaSerLeuThrPheLeuTrpThrLeuLeuArgGluValIleHisProLeuAlaThr 100
DB 304 ATACATCTCTGACTTTCTTTACACTCTTCCGAGGAGAAATTAACCTTACCACT 363
QY 101 SerIleGlnGlnTrpPheTrpLysIleProIleLeuValIleAsnLysValLeuProMet 120
DB 364 TCCCATCAACAAATATTTTATTAATTCATCCCTGCTCATCAACAAAGCTTCGCAATG 423
QY 121 ValSerIleThrLeuLeuAlaLeuValTrpLeuProGlyValIleAlaIleValGln 140
DB 424 GTTTCATCACTCTCTTGGCACTTGGTTTACCTGCGAGGTGATGACGCAATGTCTCAA 483
QY 141 LeuHisAsnGlyTrpTrpLysLysAspPheProHisTrpLeuAspLysTrpMetLeuThr 160
DB 484 CTTCATATATGGAACCAAGATATAGAAAGTTTCCACATGTTGGTGAATAGTGAATTAACA 543
QY 161 ArgLysGlnPheGlyLeuLeuSerPhePhePheAlaValLeuHisAlaIleTrpSerLeu 180
DB 544 AGAAGAGAGTTGGGCTTCTCAAGTTCTTTTCTGCTACTGCAATTAATTAAGTCTG 603
QY 181 SerTrpProMetArgArgSerTrpArgTrpLysLeuLeuAsnTrpAlaTrpGlnGlnVal 200
DB 604 TCTTACCAATGAGGCAATCTTACAGATACAAAGTTGCTAAAGTGGGCAATCAACAGATC 663
QY 201 GlnGlnAsnLysGluAspAlaTrpIleGlnHisAspValTrpArgMetGluIleTrpVal 220
DB 664 CAACAATAATGAAGAGATGCTGATTTGACATGATGATTTTGGAGAAAGGAGATTAATG 723
QY 221 SerLeuGlyLysValGlyLeuAlaIleLeuAlaLeuLeuAlaValThrSerIleProSer 240
DB 724 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGACATCTAATTCATCT 783
QY 241 ValSerAspSerLeuThrTrpArgGluPheHisTrpTrpIleGlnSerLysLeuGlyIleVal 260
DB 784 GTAGAGAGCTCTTTGACATGAGAGAAATTTCACTAATTAAGAGCAAGCTTAAGAAATGTT 843
QY 261 SerLeuLeuLeuGlyTrpHisIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
DB 844 TCCCTTCTAGTGGGCAATACAGCATTAATTTTGGCTGGAAATAGTGAATAGATATA 903
QY 281 LysGlnPheValTrpTrpThrProProThrPheMetIleAlaValPheLeuProIleVal 300
DB 904 AAACAATTTGATGATATACCTCAACTTTATATAGCTGTTTCTTCCCAATTTGTT 963

QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysAlaIleLeuLysIle 320
DB 964 GTCTGATATTTTAAAGCATTAATCTTCTGCACTGAGAGAGAAAGTACTGAAGATT 1023
QY 321 ArgHisGlyTrpGluAspValThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
DB 1024 AACATGTTGGTGAAGACCTCAACAAATTAACAAACTGAATATGTTCCAGATTG 1080

RESULT 6

US-10-830-899-2
Sequence 2, Application US/10630899
Publication No. US20040253232A1
GENERAL INFORMATION:

APPLICANT: Jakobovits, Aya
APPLICANT: Etesami, Soudabeh
APPLICANT: Chalilica-Bid, Pia M.
APPLICANT: Perez-Villar, Juan
APPLICANT: Meyrick Morrison, Karen Jane
APPLICANT: Jia, Xiao-Chi
APPLICANT: Faris, Mary
APPLICANT: Gudas, Jean
APPLICANT: Raitano, Arthur B.
TITLE OF INVENTION: Antibodies and Molecules Derived
FILE REFERENCE: 51158-20016.26
CURRENT APPLICATION NUMBER: US/10/830,899
PRIOR FILING DATE: 2004-04-23
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 10/010,667
PRIOR FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 10/011,095
PRIOR FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 10/236,878
PRIOR FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/455,486
PRIOR FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 103
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (66) ... (1085)

US-10-830-899-2

Alignment Scores:
Pred. No.: 1,666-195 Length: 1193
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 8 Gaps: 0

US-10-750-262-2 (1-339) x US-10-830-899-2 (1-1193)

QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProArg 20
DB 66 ATGGAAGAGAGAAAGACATCAACAAAGAAAGAACTTGGAAATGAAGCTTAGAGA 125
QY 21 AsnLeuGluLysAspTrpLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 126 AATTAGAGAGAGACATTAATTTGATTAAGACACGGGAGAGACAGCATGCTTAAGAAA 185
QY 41 ProValLeuLeuHisLeuHisGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 186 CTTGCTCTTTGCAATTTGCACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCAGAA 245
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLysProIleLysIleAlaIle 80

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Db      246 CTTGACGACACAGAGAACTCTTCCACAGTGGCACTTGGCAATTAATAGCTGTAAT 305
Qy      81  ILeaIaSerLeuThrPheLeuTyThrLeuLeuAglValIleHisProLeuAlaThr 100
Db      306 ATGAGATCTCGACTTTCTTTACACTCTTCGAGGGAAGTAATTCACCCCTTTAGCAACT 365
Qy      101 SerHisGlnGlnTyPheTyTyrIleProIleLeuValIleAsnLysValLeuProMet 120
Db      366 TCCCATCAACAATAATTTTATTAATAATCCCAATCCGTGGTCATACAAAGCTTGGCCAAATG 425
Qy      121 ValSerIleThrLeuLeuAlaLeuValTyLeuProGlyValIleAlaAlaIleValGln 140
Db      426 GTTTCATCATCTCTCTTGGCACTTGGTTACCTGCCAGGTGATAGCAATTTGCCAA 485
Qy      141 LeuHisAsnGlyThrLysTyTyrLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
Db      486 CTTCAATAATGGAACCAAGTATAAGAAATTTCCACATGGTGATAGCAATGTTTAAACA 545
Qy      161 ArgLysGlnPheGlyLeuLeuSerPhePhePheAlaValLeuHisAlaIleTySerLeu 180
Db      546 AGAAAGCAGTTTGGGCTTCTCAGTTCTTTTGTGCTGATGCAATTTATAGTCTG 605
Qy      666 CAACAAATTAAGAAAGATGCTGATTTGAGCATGATGTTTGGAATGAGATTTATGTG 725
Db      221 SerLeuGlyIleValIleLysLeuAlaIleLeuAlaLeuLeuAlaIleThrSerIleProSer 240
Qy      726 TCTCTGGGAATTTGGATTTGGCAATACCTGGCTGTGGCTGTGATGATTAATTCATCT 785
Db      241 ValSerAspSerLeuThrTrpArgGluPheHisTyTyrIleGlnSerLysLeuGlyIleVal 260
Qy      786 GTAGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGCAAGCTAGGAATTTGTT 845
Db      261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
Qy      846 TCCCTTCTACCTGGGCAACATACAGCATGATTTTCTCGCAATAAGTGAATGAGATTA 905
Db      281 LysGlnPheValTrpTyThrProProThrPheMetIleAlaValPheLeuProIleVal 300
Qy      906 AAACAATTTGATGGTATACCTCCCACTTTATGATAGTGTGTTTCTTCCCAATTTGTT 965
Db      301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
Qy      966 GTCTGATATTTAAAGCATACTATCTCTGCCATGCTTGAAGAAAGATAGTGAAGATT 1025
Db      321 ArgHisGlyTrpGluAspValThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
Qy      1026 AGACATGTTGGGAAGACGTACCAAAATTAACAAACTGAGATATGTTCCCAAGTTG 1082

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; PRIOR APPLICATION NUMBER: US/10/165,044
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: WO 99/62941
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: PCT/US00/33040
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64)...(1191)
US-10-753-195-1
Alignment Scores:
Pred. No.: 1,666-195 Length: 1193
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB:
US-10-750-262-2 (1-339) x US-10-753-195-1 (1-1193)
Qy      1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProArg 20
Db      64 ATGAAAGCAGAAAGACATTCACAAACCAAGAAAGACTTGGAAATGAAGCTAGAGAGA 123
Qy      21 AsnLeuGluGluAspAspTyThrLysLysAspThrGlyGluThrSerMetLeuLysArg 40
Db      124 AATTTGAAGAGAGACATTATTGTCATAAGACACACGGAGAGACCGCATGCTTAATAAGA 183
Qy      41 ProValLeuLeuHisLeuHisGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
Db      184 CCGTGCCTTTGGATTGGACCAACAGCCCATGCTGATGAATTTACCTGCCCTTCAGAA 243
Qy      61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProIleLysValAlaAlaIle 80
Db      244 CTTGACGACACAGAGAACTCTTCCACAGTGCACCTTGCATTAATAATAGCTGTAAT 303
Qy      81 ILeaIaSerLeuThrPheLeuTyThrLeuLeuAglValIleHisProLeuAlaThr 100
Db      304 ATGACATCTCGACTTTCTTTACACTCTTCGAGGGAAGTAATTCACCCCTTTAGCAACT 363
Qy      101 SerHisGlnGlnTyPheTyTyrIleProIleLeuValIleAsnLysValLeuProMet 120
Db      364 TCCCATCAACAATAATTTTATTAATAATCCCAATCCGTGGTCATACAAAGCTTGGCCAAATG 423
Qy      121 ValSerIleThrLeuLeuAlaLeuValTyLeuProGlyValIleAlaAlaIleValGln 140
Db      424 GTTTCATCATCTCTCTTGGCACTTGGTTACCTGCCAGGTGATAGCAATTTGCCAA 483
Qy      141 LeuHisAsnGlyThrLysTyTyrLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
Db      484 CTTCAATAATGGAACCAAGTATAAGAAATTTCCACATGGTTGGAATGATGATGTTTAAACA 543
Qy      161 ArgLysGlnPheGlyLeuLeuSerPhePhePheAlaValLeuHisAlaIleTySerLeu 180
Db      544 AGAAAGCAGTTTGGGCTTCTCAGTTCTTTTGTGCTGATGCAATTTATAGTCTG 603
Qy      181 SerTyTrpMetArgArgSerTyArgTyTyrLysLeuLeuAsnTrpAlaTyGlnGlnVal 200

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RESULT 7
US-10-753-195-1
; Sequence 1, Application US/10753195
; Publication No. US20050004349A1
; GENERAL INFORMATION:
; APPLICANT: Agensys, Inc.
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas Safran
; APPLICANT: Daniel E. H. Afar
; APPLICANT: Steven Chappell Mitchell
; APPLICANT: Mary Farie
; APPLICANT: Aya Jakobovite
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 51158-20016.02
; CURRENT APPLICATION NUMBER: US/10/753,195
; CURRENT FILING DATE: 2004-01-06

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QY	1	MeGIuSeErzrgrlysaApR11eThrAsnGIngluLeuTrpIyMeLysProArgArg	20
Db	64	ATGGAAAGCAGAAAAAGCATCACAAACCAAGAAAGAACTTTGGAAAAATGAAGCCCTAGAGA	122
QY	21	AsnLeuGIuGIuAspAspTrpLeuHisLysAspThrG1xG1uHrSerMetLeuLysArg	40
Db	124	AATTATTAAGAAGACGATTATTGGCATTAAGACACGGGAAGACCAACATAGCTAAAAAGA	183
QY	41	ProValLeuLeuHisIseuHisGInThrAlaHisAlaAspGIuHrAspCysProSerGIu	60
Db	184	CTGTGGCTTTGGCATTTGGACCAAAACGCCCAAGCTGATGAATTAATTGACTCGCTTCAGAA	243
QY	61	LeuGInHisThrGInGIuLeuPheProGInTrpHisLysuProIleLysIleAlaIle	80
Db	244	CTTCAGACACACAGAAACTTTTCCACAGTGGCACCTTGGCATTAATAATAGCTGCTAAT	303
QY	81	IleAlaSerLeuThrPheLeuTrpTrpLeuLysArgGIuValIleHisProLeuAlaTrp	100
Db	304	ATAGCATCTCTGACTTTTCTTTACACTCTTCTGAGGAAAGTAATTACCTTAGCAACT	363
QY	101	SerHisGInGInTrpPheTrpLysIleProIleLeuValIleAsnLysValLeuPromet	120
Db	364	TCCCATCAACAATATTTTATATAAATCCAAATCTGGTATCAACAAGCTCTGGCAATG	423
QY	121	ValSerIleThrLeuLeuAlaLeuValTrpLeuProGIuValIleAlaAlaIleValGIn	140
Db	424	GTTTCATACACTCTCTGGCATTTGTTTACCTGCCAGGTGATAGCACAAATTTGCCAA	483
QY	141	LeuHisAsnGIuTrpHisTrpLysLysPheProHisTrpLeuAspLysTrpMetLeuThr	160
Db	484	CTTCATTAATGAAGAACCAAGTATTAAGAACTTCCACATGTTGATGAATGAGTATTAACA	543
QY	161	ArgLysGInPheGIuLeuLeuSerPhePheAlaValLeuHisAlaIleTrpSerLeu	180
Db	544	AAGAAAGCACTTGGGCTCTCAGTTCTCTTTTGGTGTAAGCTCAAGCATTTATAGTCG	603
QY	181	SerTrpProMetArgArgSerTrpArgTrpLysLeuLeuAsnTrpAlaTrpGInGInVal	200
Db	604	TCTTACCCCAATAGAGCGATCTCTACAGAAACAAGTGTCAAACTGGGCAATATCAACAGGTC	663
QY	201	GInGInAsnLysGIuAspAlaTrpIleGInHisAspValITPAxMeGInLysTrpVal	220
Db	664	CACCAAAATTAAGAAAGATGCTCGATTGACATGATGTTGGAGATGAGATTTATATG	723
QY	221	SerLeuGIuIleValGIuLeuAlaIleLeuAlaLeuLeuAlaValThrSerIleProSer	240
Db	724	TCTCTGGAAATGTGGATGGCAATACTGGGCTCTGTTGGCTGTACATCTATTCCACT	783
QY	241	ValSerAspSerLeuThrTrpArgGIuPheHisTrpIleGInSerLysLeuGIuIleVal	260
Db	784	GTCATGTACTCTTTGCACATGAGAGAAATTTCACTATATTACAGACAAACTAGAAATCTT	843
QY	261	SerLeuLeuLeuGIuTrpIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle	280
Db	844	TCCCTTCTACTGGGACACATACAGCATGATTTTTGGCTGGAAATAGTGATGATGATTA	903
QY	281	LysGInPheValITrPTrpTrpProThrPheMetIleAlaValPheLeuProIleVal	300
Db	904	AAACATATTGATGATGATACACCTCCAACTTTATGATAGCTGTTTCTTCCATTCGTT	963
QY	301	ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysIleLeuLysIle	320
Db	964	GTCCTGATATTTTAAACATATCTATTTCTGCAAGCTTGAGAGAAAGATCTGAATTT	1023
QY	321	ArgHisGlyTrpGIuAspValIThrLysIleAsnLysThrGIuLysSerGInLeu	339
Db	1024	AGACATGCTTGGGAAGACGTCACCAAAATTAACAACAACTGAGATATGTTCCCAATGG	1080


```

GENERAL INFORMATION:
APPLICANT: Jakobovits, Aya
APPLICANT: Etesami, Soudabeh
APPLICANT: Chaillita-Bid, Pia M.
APPLICANT: Perez-Villar, Juan
APPLICANT: Meyrick Morrison, Karen Jane
APPLICANT: Jia, Xiao-Chi
APPLICANT: Paris, Mary
APPLICANT: Gudus, Jean
APPLICANT: Raitano, Arthur B.
TITLE OF INVENTION: Antibodies and Molecules Derived
TITLE OF INVENTION: Cherefrom that Bind to STEAP-1 Proteins
FILE REFERENCE: 51158-20016.26
CURRENT APPLICATION NUMBER: US/10/861,662
CURRENT FILING DATE: 2004-06-04
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 10/010,667
PRIOR FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 10/011,095
PRIOR FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 10/236,878
PRIOR FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/455,486
PRIOR FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 103
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (66)...(1085)
US-10-861-662-2

Alignment Scores:
Pred. No.: 1.66e-195 Length: 1193
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: Gaps: 0

US-10-750-262-2 (1-339) x US-10-861-662-2 (1-1193)
QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrrPlyMetLysProArgArg 20
DB 66 ATGGAAGCAGAAAGACATCAGAAACAGAAAGACTTGGAAATGAAAGCTAGAGAGA 125
QY 21 AsnLeuGlnGluAspArgTrrLeuHisLysAspThrGlyGluTrrSerMetLeuLysArg 40
DB 126 AATTGAAGAGAGAGCATTTATTCATTAAGAGACAGGAGAGACACCATCTTAAGAAAGA 185
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 41 CCGTGTCTTTGCAATTGGACCAACAGCCCATGCTGAATTAATTCAGTGCCTTCAGAA 245
QY 186 CCGTGTCTTTGCAATTGGACCAACAGCCCATGCTGAATTAATTCAGTGCCTTCAGAA 245
DB 61 LeuGlnHisThrGlnGluLeuPheProGlnTrrHisLeuProIleLysIleAlaAlaIle 80
DB 246 CTTAGCAGACACAGAGAACTTTTCACAGTGGAGCTTGCCTTGAATTAATTAATTCAGT 305
QY 81 IleAlaSerLeuThrPheLeuTrrThrLeuLeuArgLysIleHisProLeuAlaThr 100
DB 306 ATACCATCTCTGACTTTCTTTACACTCTCTCTGAGGGAAGTAATTCACCTTTAGCAACT 365
QY 101 SerIleGlnGlnTrrPheTrrLysIleLeuProIleLeuValIleAsnLysValLeuProMet 120
DB 366 TCCCATCAACATATATTTTATTAATAATTCACATCTGATCATACAAAGCTTGGCATG 425
QY 121 ValSerIleThrLeuLeuAlaLeuValTrrLeuProGlnValIleAlaAlaIleValGln 140
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DB 426 GTTTCATCTACTCTTGGCATTTGCTTACCTGCAGGTGTAGCAGCAATTCACAA 485
QY 141 LeuHisAsnGlyThrLysTrrLysLysPheProHisTrrLeuAspLysTrrMetLeuThr 160
DB 486 CTTCATATATGGAACCAAGTATTAAGAAAGTTTCACATTTGGTGAATGATGATTAACA 545
QY 161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaIleTrrSerLeu 180
DB 546 AGAAAGCAGTTGGGCTTCTAGATTTCTTTTTCCTGCTACATGCATGCAATTTATGCTG 605
QY 181 SerTrrProMetArgArgSerTrrArgTrrLysLeuLeuAsnTrrPalatrrGlnGlnVal 200
DB 606 TCTTATCCCAATGAGGCGCATCTTACAGATACAAATGTTAACTGGGCAATCAACAGCTC 665
QY 201 GlnGlnAsnLysGluAspAlaTrrPileGlnHisAspValTrrPargMetGlnIleTrrVal 220
DB 666 CAACAAATTAAGAAAGATGCTGTGATGAGCATGATGTTTGAAGATGAGATTTATGTG 725
QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuAlaValThrSerIleProSer 240
DB 726 TCTCTGGGAATTTGGGATTTGGCATTTCTGCTCTGTTGGCTGTGACATTTATTCATCT 785
QY 241 ValSerAspSerLeuThrTrrArgGluPheHisTrrIleGlnSerLysLeuGlyIleVal 260
DB 786 GTGAGTGACTCTTTGACATGAGAGAAATTTACTATTTACAGAGCAAGCTAGAAATGTT 845
QY 261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrrPasnLysTrrIleAspIle 280
DB 846 TCCCTTTACTGCGCACATACACCATTTGATTTTGGCTGGAATTAAGTGAATTAATTA 905
QY 281 LysGlnPheValTrrTrrThrProProThrPheMetIleAlaValPheLeuProIleVal 300
DB 906 AAACAAATTTGATGTATACACCTTCACATTTATGATAGCTTTTCTTCCATTTGTT 965
QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
DB 966 GTCTCATATTTTAAAGCATCTATTCTCGCATGCTTGAAGAAGATGACTGAAGATT 1025
QY 321 ArgHisGlyTrrGlnAspValThrLysIleAsnLysTrrGlnIleCysSerGlnLeu 339
DB 1026 AGCATGTGTTGGGAAGACGTCAACAAATTAACAAATGAGATATGTTCCAGTTG 1082

RESULT 10
US-09-759-143-878
; Sequence 878, Application US/09759143
; Patent No. US200202248A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, David C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqun
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Renger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C23
CURRENT APPLICATION NUMBER: US/09/759,143
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 934
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
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LENGTH: 1195
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-750-143-878
 Alignment Scores:
 Pred. No.: 1,676-195 Length: 1195
 Score: 1790.00 Matches: 339
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 3 Gaps: 0

US-10-750-262-2 (1-339) x US-09-759-143-878 (1-1195)

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 21 AenLeuGluGluAspAspTyrLeuHisLysAspThrGluInThSerMetLeuLysArg 40
 126 AATTTAGAAAGAGACATTAATTTGCAATAGACACCGGAGAGACCGCATGCTAAAGAGA 185
 41 ProValLeuLeuHisLysGlnThraLahisAAspGluPheAspCysProSerGlu 60
 186 CCGTGGCTTTTGCAATTTGCAACCAACAGCCCATGCTGAATTTGACTGCCCTTCAGAA 245
 61 LeuGlnHisThrGlnLeuPheProGlnTrpHisLeuProLysIleAAlaIle 80
 246 CTTGAGCAGACAGAGAACTCTTCCAGAGTGGCACTGGCAATTAATAGCTCTATT 305
 81 IleAlaSerLeuThraPheLeuTyrThrLeuLeuAspGluValIleHisProLeuLahThr 100
 306 ATAGATCTCTGACTTTCTTTACCTCTTCCAGAGAGATTAATCACCCTTTAGCAACT 365
 101 SerHisGlnGlnTyrPheTyrLysIleProLysValIleAsnLysValLeuProMet 120
 366 TCCCATCAACAAATATTTTATTAATTCATCCGTCATCAACAAAGCTCTTGGCAATG 425
 121 ValSerLeuThraLeuAlaLeuValTyrLeuProGluValIleAAlaIleValGln 140
 426 GTTTCATCACTCTTGGCAATGTTTACCTGCAAGTGTGATGAGCAATGTTCCAA 485
 141 LeuHisAsnGlnTyrLysTyrLysPheProHisIleThraLeuAspLysTrpMetLeuThr 160
 486 CTTGATATGAGAACCAAGATTAAGAGTTTCCACATGTTGATGAGATTTATTAACA 545
 161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAAlaIleTyrSerLeu 180
 546 AGAAGCAGTTTGGGCTTCTCAGTTTCTTTTCTGCTGACATGCAATTTATAGTCTG 605
 181 SerTyrProMetArgLysSerTyrArgTyrLysLeuLeuAsnTrpAlaTyrGlnGlnVal 200
 606 TCTTACCCCAATGAGGCGATCTTACAGATACAAAGTTGCTAACTGGCATATCAACAGTGC 665
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 666 CAACAAATTAAGAAAGATGCTGAGATTTGACATGATTTTGGAAATGAGATTTAAGTG 725
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 261 SerLeuLeuLeuGlyThrIleHisAAlaIlePheAlaTrpAsnLysTrpIleAspIle 280
 846 TCCCTTCTAGGCGCAACATACAGCATGATTTTGGCTGGAAATAGTGAGATATATA 905
 281 LysGlnPheValTyrTyrThrProTrpPheMetIleAAlaValPheLeuProIleVal 300

DB 906 AAACAATTTGATGATATACCTCCAACTTTTATGATAGTCTTTCCCTTCCAAATTGTT 965
 QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysIleLeuLysIle 320
 DB 966 GTCTGATATTTTAAAGCATATCTATTCCTGCCATGCTTACGAGAGAGATCTGAAGATT 1025
 QY 321 ArgHisGlyTyrGluAspValThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
 DB 1026 AACAATGTTGGAGAGACCTCACAAATTAACAATAAGATATGTTCCAGTTG 1082

RESULT 11

US-09-780-669-878

Sequence 878, Application US/09780669
 Patent No. US2002051977A1
 GENERAL INFORMATION:
 APPLICANT: Xu, Jiangchun
 APPLICANT: Dillon, Davin C.
 APPLICANT: Mitcham, Jennifer L.
 APPLICANT: Harlocker, Susan L.
 APPLICANT: Jiang, Yuqun
 APPLICANT: Henderson, Robert A.
 APPLICANT: Kalos, Michael D.
 APPLICANT: Fanger, Gary R.
 APPLICANT: Reutter, Marc W.
 APPLICANT: Stolk, John A.
 APPLICANT: Day, Craig H.
 APPLICANT: Vedick, Thomas S.
 APPLICANT: Carter, Darlick
 APPLICANT: Li, Samuel
 APPLICANT: Wang, Aijun
 APPLICANT: Skeiky, Yasir A.W.
 APPLICANT: Hepler, William
 APPLICANT: McNeill, Patricia D.
 APPLICANT: Houghton, Raymond L.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
 FILE REFERENCE: 210121.427C24
 CURRENT APPLICATION NUMBER: US/09/780,669
 CURRENT FILING DATE: 2001-02-09
 NUMBER OF SEQ ID NOS: 943
 SOFTWARE: PaedSeq for Windows Version 3.0
 SEQ ID NO 878
 LENGTH: 1195
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-780-669-878

Alignment Scores:
 Pred. No.: 1,676-195 Length: 1195
 Score: 1790.00 Matches: 339
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 3 Gaps: 0

US-10-750-262-2 (1-339) x US-09-780-669-878 (1-1195)

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 21 AenLeuGluGluAspAspTyrLeuHisLysAspThrGluInThSerMetLeuLysArg 40
 126 AATTTAGAAAGAGACATTAATTTGCAATAGACACCGGAGAGACCGCATGCTAAAGAGA 185
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 186 CCGTGGCTTTTGCAATTTGCAACCAACAGCCCATGCTGAATTTGACTGCCCTTCAGAA 245
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 246 CTTGAGCAGACAGAGAACTCTTCCAGAGTGGCACTGGCAATTAATAGCTCTATT 305

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QY 121 ValSer11ethrleuValaleuValTYrieuProG1yVal11leAlAlAl1eValGIn 140
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QY 141 LeuH1easnG1yThlyeTYrlylePheProH1eSTRPleuAsp1ySTPmetleuThr 160
DB 486 CTTCAATAATGGAACAAGATTAAGAAGTTTCCACATGTTGATGAATGAGATGTTAA 545
QY 161 ArglyeGInPheG1yleuSerPhePhePheAlaValleuH1eAlAl1eTYrSerleu 180
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QY 181 SerTYrProwetArgH1eTYrTYrTYrTYrlyleuValleuAsn1rPal1yGInGInVal 200
DB 606 TCTTACCAATAGAGGAGATCTTACAGATCAAGTTGCTAACTGGGCAATATCAACAGGTC 665
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US-09-822-827-878
: Sequence 878, Application US/09822827
: Patent No. US20020081680A1
: GENERAL INFORMATION:
: APPLICANT: Xu, Jiangchun
: TITLE OF INVENTION: DIAGNOSIS AND METHODS FOR THE THERAPY AND
: FILE REFERENCE: 210121.534C1
: CURRENT APPLICATION NUMBER: US/09/822.827
: NUMBER OF SEQ ID NOS: 982
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 878
: LENGTH: 1195
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-822-827-878
Alignment Scores:
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Pred. No.: 1,676-1,995 Length: 1,195
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0
US-10-750-262-2 (1-339) x US-09-822-827-878 (1-1195)
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QY 21 AsnleuG1yG1yAspArg1yLeuH1e1yAspThrG1yG1yThrSerMetleu1yAsp 40
DB 126 AATTAGAAAGAAAGCATTTATTCATAGGACACGGAGAGACACAGATCTTAAAAA 185
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DB 246 CTTACAGACACACAGGAATCTTTCCACAGTGGCACTTGGCAATTAATAATGCTGTAT 305
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DB 306 ATAGCATCTCGACTTCTTCTTACACTCTTCTGAGGGAAGATTCACCCCTTTAGCAACT 365
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QY 141 LeuH1easnG1yThlyeTYrlylePheProH1eSTRPleuAsp1ySTPmetleuThr 160
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QY 161 ArglyeGInPheG1yleuSerPhePhePheAlaValleuH1eAlAl1eTYrSerleu 180
DB 546 AGAAAGCAGTTGGGCTTTCAGTTCTTTTTCCTGATCTGATCAATTTATAGTCTG 605
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DB 666 CAACAAATTAAGAAAGATGCTGATTTGAGCATGATGTTGAGAAATGAGATTTATGTG 725
QY 221 SerleuG1y11eValG1yLeuAl1eLeuAl1eLeuAl1eVal1rH1eSer11eProSer 240
DB 726 TCTCTGGAATTTGGGATTTGGCAATACAGCTGCTGTGGCTGTGATCTATTCATCT 785
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QY 321 ArgHISGLYTRPGLUASPVALThrLYSILEASNYRThRGLUTILECYSERGINLEU 339
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 US-09-895-793-878
 / Sequence 878, Application US/09895793
 / Publication No. US20020192763A1
 GENERAL INFORMATION:
 / APPLICANT: Xu, Jiangchun
 / APPLICANT: Dillon, Devin C.
 / APPLICANT: Mitcham, Jennifer L.
 / APPLICANT: Harlocker, Susan L.
 / APPLICANT: Jiang, Yuguu
 / APPLICANT: Kalos, Michael D.
 / APPLICANT: Reiter, Marc W.
 / APPLICANT: Stolk, John A.
 / APPLICANT: Day, Craig H.
 / APPLICANT: Vedvick, Thomas S.
 / APPLICANT: Carter, Darrick
 / APPLICANT: Li, Samuel X.
 / APPLICANT: Wang, Aljun
 / APPLICANT: Skeiky, Yasir A.W.
 / APPLICANT: Heppler, William T.
 / APPLICANT: Henderson, Robert A.
 / APPLICANT: Hural, John
 / APPLICANT: McNeill, Patricia D.
 / APPLICANT: Houghton, Raymond L.
 / APPLICANT: Vinals de Basols, Carleca
 / APPLICANT: Foy, Tereza
 / APPLICANT: Fanger, Gary R.
 TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
 FILE REFERENCE: 210121.534C2
 CURRENT APPLICATION NUMBER: US/09/895,793
 NUMBER OF SEQ ID NOS: 982
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO 878
 LENGTH: 1195
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-895-793-878
 Alignment Scores:
 Pred. No.: 1,67e-195 Length: 1195
 Score: 1790.00 Matches: 339
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 3 Gaps: 0
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 DB 606 TCTTACCAATGAGCGATCTTACATGACATGACAAAGTTGCTAACTGGGCAATTCACAGCTC 665
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 DB 666 CAACAAATATAAGAAAGATGCTGATTCAGCATGATGTTGGAAGATGAGATTTATGTG 725
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 DB 726 TCTCTGGGAATTTGGGATTTGGCAATGCTGCTCTGTTGGCTGATGATCTATTCACCT 785
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 DB 786 GTGATGATCTTTGACATGAGAGAAATTCACATATTTCAAGACCAAGCTTAGAATGTT 845
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 DB 846 TCCCTTACTGGGCAATTCACAGCTTATTTTCCCTGGAAATAGTGAATAGATATA 905
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 DB 1026 AGACATGGTTGGGAAGACGTACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1082
 RESULT 14
 US-09-895-814-878
 / Sequence 878, Application US/09895814
 / Publication No. US20020193296A1
 GENERAL INFORMATION:
 / APPLICANT: Xu, Jiangchun
 / APPLICANT: Dillon, Devin C.
 / APPLICANT: Mitcham, Jennifer L.
 / APPLICANT: Harlocker, Susan L.
 / APPLICANT: Jiang, Yuguu
 / APPLICANT: Kalos, Michael D.
 / APPLICANT: Reiter, Marc W.
 / APPLICANT: Stolk, John A.
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 / APPLICANT: Heppler, William T.
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 / APPLICANT: Hural, John
 / APPLICANT: McNeill, Patricia D.
 / APPLICANT: Houghton, Raymond L.

APPLICANT: Vinals de Bassols, Carlota
APPLICANT: Foy, Teresa
APPLICANT: Fanger, Gary R.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C26
CURRENT APPLICATION NUMBER: US/09/895,814
CURRENT FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 990
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-895-814-878

Alignment Scores:
Pred. No.: 1,67e-195 Length: 1195
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0

US-10-750-262-2 (1-339) x US-09-895-814-878 (1-1195)

QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProArgArg 20
DB 66 ATGGAAGAGCAAGAAAGACATCAAAACCAAGAAAGAACTTGGAAATGAAAGCTAGAGAA 125
QY 21 AenLeuGlnGluAspArgTrpLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 126 AATTGAGAAAGAACATTTATTTGCAATAGGACACGGGAGAGCCAGCATGCTGAAAAGA 185
QY 41 ProValLeuLeuHisLeuHisGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 186 CCGTCTCTTTGCAATTTGCACCAACAGCCCATGCTGATTAATTTGACCTGCTGAGAA 245
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProLysIleValIleAlaIle 80
DB 246 CTTGACACACACAGCAACTCTTCCACAGTGCACCTGCAATTTAAATAGCTGCTAAT 305
QY 81 ILeAlaSerLeuThrPheLeuTrpThrLeuLeuArgGluValIleHisProLeuAlaThr 100
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DB 366 TCCCATCAACAATTTTATTAATTCATCTGCTGATCAACAAGCTTGCATG 425
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DB 666 CAACAATAATTAAGAAAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 725
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DB 786 GTGAGTACCTTTTGATGATGAGAAATTTCACTATTTTACAGCAAGCTAGGAATTTGT 845
QY 261 SerLeuLeuGlnGlyThrIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
DB 846 TCCCTTCTACGGGCAATATACAGCATTTATTTTCTGCGAATATAGTGATGATATATA 905
QY 281 LysGlnPheValTrpTrpProProThrPheMetIleAlaValPheLeuProIleVal 300
DB 906 AAACAATTTGATGATGATACCTCCCAACTTTATATGATGATGATGATGATGATGATG 965
QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
DB 966 GTCCGATATTTAAAGATATATCTTCTGCGCATCTTGAGAAAGAAATCTGAAAGATT 1025
QY 321 ArgHisGlyTrpGluAspValIThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
DB 1026 AGACATGTTGGGAAGAGCTGACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1082

RESULT 15

US-10-012-896-878
Sequence 878, Application US/10012896
Publication No. US20020183251A1

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Kalos, Michael D.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick L.
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepder, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals de Bassols, Carlota
APPLICANT: Foy, Teresa
APPLICANT: Mantanabe, Yoshihiro
APPLICANT: Meagher, Madeleine Joy
APPLICANT: Wanger, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-10-012-896-878

Alignment Scores:

Pred. No.: 1,67e-195 Length: 1195
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0

US-10-750-262-2 (1-339) x US-10-012-896-878 (1-1195)

QY 1 MetGluSerArgLysAspIleThrAsnGlnGluGluLeuTyrPheLysProArgArg 20
 DB 66 ATGGAAAGCAGAAAGACATACAAACAAAGAAACTTTGGAAATGAAGCCTAGAGAGA 125
 QY 21 AsnLeuGlnGluLysAspTyrLeuHisLysAspThrGlnGluThrSerMetLeuLysArg 40
 DB 126 AATTAGGAAGAGACATTTATTTGCATAGAGACACGGAGAGACACGACATGCTTAAAGAA 185
 QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
 DB 186 CCTGTCCTTTTGATTTGACCAACAGGCCCATGCTGATGAATTGACTGCCCTTCAGAA 245
 QY 61 LeuGlnHisThrGlnGluLeuPheProGlnThrPheLysIleValIleHisProLeuAlaThr 80
 DB 246 CTTTCAGACACACAGGAACTCTTTCACAGTGGCCTTCACATTAATAAGCTGCTATT 305
 QY 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgLysValIleHisProLeuAlaThr 100
 DB 306 ATAGCATCTCTACTTTTCTTTACACTCTTCTGAGGAAAGTAATTCACCTTTAGCAACT 365
 QY 101 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuProMet 120
 DB 366 TCCCATCAACATATTTTATAAATTCATCTGTCATCAACAAAGCTTTGCCAATG 425
 QY 121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaAlaIleValGln 140
 DB 426 GTTTCATCACTCTCTTGCACTTGTTTACCTGCCAGGTGATAGACAACTGTCCAA 485
 QY 141 LeuHisAsnGlnTyrHisTyrLysLysPheProHisThrLeuAspLysIlePheLeuThr 160
 DB 486 CTTCTAATGGAACCAAGATATAGAAAGTTCCACATGCTGGATAGTGATGTAAACA 545
 QY 161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaIleTyrSerLeu 180
 DB 546 AGAAGCAGTTTGGGCTTCTCAGTTCTTTTGTGCTGACTGCATGCMAATTTATAGCTG 605
 QY 181 SerTyrProMetArgArgSerTyrArgTyrLysLeuLeuAsnTyrPalaTyrGlnGlnVal 200
 DB 606 TCTTACCCAAATGAGCGCATCTTACAGATACAAAGTTGCTAACTGGGCATATCAACAGCTC 665
 QY 201 GlnGlnAsnLysGluAspAlaIleThrIleGlnHisAspValTyrPheMetGluIleTyrVal 220
 DB 666 CAACAAATTAAGAAAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 725
 QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValThrSerIleProSer 240
 DB 726 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTATTCATCT 785
 QY 241 ValSerAspSerLeuThrTyrPheGluPheHisTyrIleGlnSerLysLeuGlyIleVal 260
 DB 786 GTGAGTGACTCTTGACATGAGAGAAATTCACTATATTCAGAGCAAGCTTAGAATTGTT 845
 QY 261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTyrPheLysTyrIleAspIle 280
 DB 846 TCCCTCTACTGGGCAACATACACGCAATGATTTTGTCTGGAATAAGTGGATAGATATA 905
 QY 281 LysGlnPheValTyrTyrThrProProThrPheMetIleAlaValPheLeuProIleVal 300
 DB 906 AAACAATTTGTATAGTATACCTTCAACTTTATGATAGCTGTTTCTTCCAAATGTT 965
 QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
 DB 966 GTCCGTGATTTTAAAGCATACTATTCCTGCCATGCTTGAGGAAGAAGATACGAAGATT 1025
 QY 321 ArgHisGlnTyrGlnLysPheValThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
 DB 1026 AGACATGTTGGAAAGCGTCAACAAATTAACAAAACTGAGATATGTTCCCAAGTTG 1082

Search completed: December 6, 2005, 20:50:02
 Job time : 959 secs

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OM protein - nucleic search, using frame_plus.p2n model

Run on: December 6, 2005, 16:29:58 (Search time 159 Seconds)

(Without alignments)
663.545 Million cell updates/sec

Title: US-10-750-262-2

Perfect score: 1790

Sequence: 1 MESRDTNQEEELMKKPPR.....INHGWDYKINKTEICSQL 339

Scoring table:

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 3289935 seqs, 15561003 residues

Total number of hits satisfying chosen parameters: 6579870

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pct -NORM=ext -HEAPSIZE=500 -MINTEN=0
-MAXLEN=200000000 -USER=US10750262 @CGN 1.1 121 @rnat.06122005.162948.15696
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-LONGLOG -BPU_TIMEOUT=120 -WARN_TIMEOUT=30 -THREDS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database:

Published Applications_NA_New:
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2: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
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9: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	107	6.0	3137	6	US-10-793-626-3842 Sequence 3842, Ap
2	99.5	5.6	2622	6	US-10-750-185-48126 Sequence 48126, A
3	99.5	5.6	2803	6	US-10-750-185-29256 Sequence 29256, A
4	93.5	5.2	819	6	US-10-793-626-1307 Sequence 1307, Ap
5	92.5	5.2	3263	6	US-10-793-626-3595 Sequence 3595, Ap
6	90.5	5.1	1179	6	US-10-793-626-3305 Sequence 3305, Ap
7	90.5	5.1	1564	7	US-11-110-977-1 Sequence 1, Appl1
8	89.5	5.0	1515	6	US-10-467-657-2439 Sequence 2439, Ap

9	87.5	4.9	34000	7	US-11-102-978-3	Sequence 3, Appl1
C 10	87	4.9	3083	6	US-10-793-626-4225	Sequence 4225, Ap
C 11	87	4.9	3301	6	US-10-793-626-4209	Sequence 4209, Ap
C 12	87	4.9	4071	6	US-10-793-626-3381	Sequence 3381, Ap
C 13	86	4.8	1068	6	US-10-467-657-4965	Sequence 4965, Ap
C 14	85.5	4.8	1138	6	US-10-750-185-36689	Sequence 36689, Ap
C 15	85.5	4.8	1462	6	US-10-750-185-37763	Sequence 37763, A
C 16	85	4.7	660	6	US-10-793-626-2205	Sequence 2205, Ap
C 17	85	4.7	1368	7	US-11-074-176-237	Sequence 237, App
C 18	85	4.7	1517	6	US-10-750-185-26344	Sequence 26344, A
C 19	85	4.7	2557	6	US-10-793-626-3829	Sequence 3829, Ap
C 20	85	4.7	3146	6	US-10-793-626-4281	Sequence 4281, Ap
C 21	85	4.7	3646	6	US-10-793-626-4070	Sequence 4070, Ap
C 22	84	4.7	963	6	US-10-750-185-27964	Sequence 27964, A
C 23	83.5	4.7	1470	6	US-10-793-626-2631	Sequence 2631, Ap
C 24	83.5	4.7	3304	6	US-10-793-626-4182	Sequence 4182, Ap
C 25	83.5	4.7	4142	6	US-10-793-626-3523	Sequence 3523, Ap
C 26	83	4.6	819	6	US-10-467-657-7791	Sequence 7791, Ap
C 27	83	4.6	1636	7	US-11-102-240-77	Sequence 77, Appl
C 28	83	4.6	1915	7	US-11-068-686-3	Sequence 3, Appl1
C 29	83	4.6	1917	7	US-11-074-176-221	Sequence 221, App
C 30	82	4.6	3109	6	US-10-793-626-3708	Sequence 3708, Ap
C 31	82	4.6	3149	6	US-10-793-626-3902	Sequence 3902, Ap
C 32	81.5	4.6	2007	9	US-11-082-389-401	Sequence 401, App
C 33	81.5	4.6	2721	6	US-10-485-517-51	Sequence 51, Appl
C 34	81.5	4.6	3514	6	US-10-750-185-44589	Sequence 44589, A
C 35	81	4.5	1020	6	US-10-793-626-1693	Sequence 1693, Ap
C 36	81	4.5	2419	6	US-10-750-185-499215	Sequence 49215, A
C 37	81	4.5	3075	7	US-11-055-822-507	Sequence 507, App
C 38	81	4.5	3075	7	US-11-055-822-593	Sequence 593, App
C 39	81	4.5	3806	6	US-10-793-626-4166	Sequence 4166, Ap
C 40	81	4.5	4105	6	US-10-750-185-45307	Sequence 45307, A
C 41	80.5	4.5	1406	6	US-10-750-185-38682	Sequence 38682, A
C 42	80	4.5	360	7	US-11-174-150-17	Sequence 17, Appl
C 43	80	4.5	1347	6	US-10-467-657-677	Sequence 677, App
C 44	80	4.5	3976	6	US-10-750-185-60435	Sequence 60435, A
C 45	80	4.5	5099	6	US-10-821-234-193	Sequence 193, App

ALIGNMENTS

RESULT 1
US-10-793-626-3842
; Sequence 3842, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793, 626
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3842
; LENGTH: 3137
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-10-793-626-3842

Alignment Scores:

Pred. No.: 0.179 Length: 3137
Score: 107.00 Matches: 64
Percent Similarity: 44.07% Conservative: 55
Best Local Similarity: 23.70% Mismatches: 94
Query Match: 5.98% Indels: 58
DB: 6 Gaps: 17

US-10-750-262-2 (1-339) x US-10-793-626-3842 (1-3137)

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QY 64 ThrGInGluLeuPheProGlnTrp-----HisLeuProIleLeuValAlaAlaIleLeu 81
DB 105 ACACAAACAGGACACCAACAGGTTGATCATTTTTCATTATAGTAAAGTTTTCATTT 164
QY 82 AlaSer-----LeuThrPheLeuTyThrIleLeuValGluValIleHisProLeu 98
DB 165 GCTCAAGCTCAATATTGATTCTTTTATAAATGCATCATCTGATATTAATATGATG 224
QY 99 AlaThrSerHisGlnGlnTyPheTyIleProIleLeuValIleHisValLeu 118
DB 225 -----ATGAGCAACAATG-----ATAGGCAAGAAATTAATTAATTT 263
QY 119 PrometValSerIleThrIleLeuAlaLeuValTyIleuProGluValIleAlaIle 138
DB 264 AAAATTGTAAATGTTGGCAT-----GTCGTAATATTATTACTTTAATGCGCGTG 317
QY 139 ValGInLeuHisAsnGlyThrIleTyIleValSerPheProHisIleTrpLeuAspIleTrpMet 158
DB 318 ATT-----GGACA-----TCATTACCTAATCATTTA--AGTTATCAT 353
QY 159 LeuThr-----ArgIleGlnPheGlyLeuLeuSerPhePheAlaValIleHis 175
DB 354 CTCACGCAATACGAACACGATCGCTAGGCTATTAAATCACCACATATGTTGTAGTT 413
QY 176 AlaIleTySerIleuSerTy-----PrometArgArgSerTyArgTyIleLeu 193
DB 414 ACTTTTATATCCATGGTATTCTTACGTCACATGTAACAAATCATTTATATATCTC 473
QY 194 AsnTrpAlaTyGlnGlnValGlnIleAsnIleGluAspAlaTrpIleGluHisAsp 212
DB 474 -----ATCATCCATGAAATTA 488
QY 213 -----ValTrpArgMetGluIleTyIleValSerLeuGlyIleValGlyLeuAlaIleLeu 230
DB 489 GGAAAGTATGAGTAATGACAAATTTGTAATGGTTTGTCTATCTTATGAAACGATGTA 548
QY 231 AlaLeuLeuAlaValThrSerIleProSerValSerAspSerLeu-----ThrTrp 247
DB 549 CATGTTTACGACATGTCATGATTTTGAATTTTCCATATATCGTTATGCTACGCA 608
QY 248 ArgGluPheHisTyIleGlnSerIleLeuGly-----IleValSerLeuLeuGlyThr 266
DB 609 GCTACATATCTATATATTAATCCGGGATTAATTATGTCGCTATATATATTCAGTG 668
QY 267 IleHisAlaLeuIlePheAlaTrpAsnIleTrpIleAspIleGlnPheVal----- 284
DB 669 ATTTTGAGTGTATCCCTTTT-TATAGAAATTTTATGTAGATATCCAACTTTTAAGAAGA 727
QY 285 -----TrpTyTrpProProThrPheMet-----IleAlaValPheLeuProIle 299
DB 728 AAAATTGAAAGTGATACACCACTATATTATATAGATATTGTTATTTTACACCAATC 787
QY 300 Val-----ValleuIlePheTySerIleLeu 308
DB 788 ATTGAAGAATTTTATTTGCTCATTTAATC 817

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RESULT 2

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; Sequence 48126, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10750,185
; CURRENT FILING DATE: 2003-12-31

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; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 48126
; LENGTH: 2622
; TYPE: DNA
; ORGANISM: Bovine 1986688040440
US-10-750-185-48126

Alignment Scores:
Pred. No.: 1.02 Length: 2622
Score: 99.50 Matches: 65
Percent Similarity: 36.57% Conservative: 48
Best Local Similarity: 21.04% Mismatches: 95
Query Match: 5.56% Indels: 101
DB: Gaps: 13

US-10-750-262-2 (1-339) x US-10-750-185-48126 (1-2622)
QY 37 MetLeuValArgProValIleLeuHisIleuHisGlnThrAlaHisAlaAspGluPheAsp 56
DB 1472 CTCCTTAATGATCTTCTGTACTCCATACCTACCTCCAAAGTGTGATGATT----- 1528
QY 57 CyProSerGluLeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProIleTyS 76
DB 1529 TGTCTCAAGAGAAACAGCAT----- 1549
QY 77 IleAlaAlaIleIleAlaSerIleThrPheLeuTyThrIleuValArgGlu-----Val 94
DB 1550 CTTCGATGACAGAGTGTGATGACATCACTGTTTTTCTGCTCTTCCTGATCTGTCAGTGC 1609
QY 95 IleHisProLeu-AlaThrSerHisGlnGlnTyPheTyIle-----ProIleLeuVa 113
DB 1610 CTTCGCTGTGATGACGATGATGACCGCTATGCGCATGTGTAACCACTGGTATA 1669
QY 113 IleAsnIleValLeuPheMetValSerIleThrIleLeuAlaLeuValTyIleuProG 133
DB 1670 CACAGTCACCATCTCTCTAGGCTGTGTTATCTGCTTTTGTGGTGCTGATGATGAGG 1729
QY 133 ValIleAlaAlaIleValGlnIleuHisAsnGlyThrIleTyIleValSerPheProHis 153
DB 1730 GTTTTACAGGGGACATGGCC-----CACACAGAGAC----- 1760
QY 153 PheAspIleTyTrpMetLeuThrArgIleGlnPheGlyLeuLeuSerPhePheAlaVa 173
DB 1761 -----ATAGCAAGCTGATCTTCTGTGC 1783
QY 173 IleuHisAlaIleTySerIleuSerTyPrometArgArgSerTyArgTyIleuLeu 193
DB 1784 T-----GACAACTCAT 1795
QY 193 uAsnTrpAlaTyGlnGlnValGlnIleAsnIleGluAspAlaTrpIleGluHisAspVa 213
DB 1796 CAATCATTTCTGTGTGATATCCCTCTGCTGAGCTGGCTGCAACAGCTTCTCTGT 1855
QY 213 TrpArgMetGluIleTyIleValSerLeu-----GlyIleValGlyLeuAlaIleAla 232
DB 1856 GCACGACGTGGTGTCTTCATAGTGTGACCACTGTAATGGATGGCTCATTTGCACCAT 1915
QY 232 uLeuAlaValThrSerIleProSerValSerAspSerLeuThrTrp----- 247
DB 1916 C-----TCATCTCTTACACTTAATCTTCCAGCAATTTCTCC 1954
QY 248 -----ArgGluPheHisTyIleGln-SerIleLeuGlyI 259
DB 1955 GCATTCACTCACTGAGGGCAGATCCAAAGTTTTCAGTACATGACGCTCCACATTAATGG 2014
QY 259 leValSerLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrpAsnIleTrpIleA 279
DB 2015 TGGTTTCTCTTTTGTGTTCT----- 2037
QY 279 splIleValGlnPheValTrpTyThrProProThrPheMet----- 292

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Db 2038 -----GCACCTTTTGTGTATCAACACACCTTCCGTTTGCACCTTGACCAAGGAAAG 2092
 Qy 293 --1leAlaValPheLeuProIleValIleuIlePheLeuSerIleLeuPheLeuPro 312
 Db 2093 TGTCACTCCGTGTTTATACATGTGTGTCCTCATGTTAAATCCACTGATATAT-----A 2146
 Qy 312 yAlaLeuArgLySerIleLeuLys 319
 Db 2147 GTTGAAGAAACAGATGTCAAA 2169
 RESULT 3
 US-10-750-185-29256
 ; Sequence 29256, Application US/10750185
 ; Publication No. US2005026063A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MMI GENOMICS, INC.
 ; APPLICANT: DENISE, Sue K.
 ; APPLICANT: KERR, Richard
 ; APPLICANT: ROSENFELD, David
 ; APPLICANT: HOLM, Tom
 ; APPLICANT: BATES, Stephen
 ; APPLICANT: PANTIN, Dennis
 ; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
 ; FILE REFERENCE: MM11100-2
 ; CURRENT APPLICATION NUMBER: US/10/750,185
 ; PRIOR FILING DATE: 2003-12-31
 ; PRIOR APPLICATION NUMBER: US 60/437,482
 ; NUMBER OF SEQ ID NOS: 64922
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 29256
 ; LENGTH: 2803
 ; TYPE: DNA
 ; ORGANISM: Bovine 1986680686697
 ; US-10-750-185-29256
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 Score: 99.50 Matches: 75
 Percent Similarity: 34.15% Conservative: 51
 Best Local Similarity: 20.33% Mismatches: 100
 Query Match: 5.56% Indels: 143
 Gaps: 18
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 Qy 31 AaPThGlyGluThrSerMetLeuLysArgProValLeuHISLeuHISGlnThraLa 50
 Db 1308 -----GGAGAGGTATTCAAGAGCTG----- 1325
 Qy 51 HIsAlaAaPgluPheAaPProSerGluLeu----- 61
 Db 1326 -----TGTTCACCTCTTGTGACAGGAAAGAGGCTTCTCCAAA 1367
 Qy 62 GlnHISThrGlnGluLeuPheProGlnTrpHISLeuProIleLysValIleAlaIleIle 81
 Db 1368 GACCAACACAAA-----ACTTGACCTTTGAA----- 1394
 Qy 82 AlaSerLeuThrPheLeuTrpThrLeuLeuArgGluValIleHISProLeuAlaThrSer 101
 Db 1395 -----ACAAATGTGAAAAAATAATATGAGGCACTACCAAC-----ACAAA 1436
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 Qy 122 SerIleThrLeuAlaLeuValTrpLeuProGluValIleAlaIleValIleGlnLeu 141

Db 1461 TTTCGAACCTTTGTGCAAAAACCTTCTGCAAGAACTCATGCTGACAGAAATATATTAA 1520
 Qy 142 HIsAaGlyThrLysTrpLysPheProHISTrpLeuAaPTrIlePheLeuThraArg 161
 Db 1521 TGTCTGTTCCGAAG-----GAATGTGATCGCTTACTGATGTCAAA 1565
 Qy 162 LysGln-----PheGlyLeuLeu 167
 Db 1566 AAAAGAAATGAAACGGGCAAAAAGAAAGATGTCAGGATTTATTATCATTAACCTTCC 1625
 Qy 168 SerPhePheAlaValLeuHIS-----AlaIleTrp 178
 Db 1626 CTCTCTTTGTCCCTGATCTCATGCTGTTAATCTCTGACAAATGTCGCTCTACCG 1685
 Qy 179 SerLeuSerTrpPrometArgArgSerTrpArgTrpLys----- 191
 Db 1686 TCTGTCACACATTAATGAAAAAGTACTACGACCAAGATACAGCCATCATTAAGA 1745
 Qy 192 -----LeuLeuAaTrpAlaTrpGlnGlnValIleGlnAaLysValIleValIle 209
 Db 1746 GAGAGATTAAGAAATGTTTCTTACTCTGTTCTCAGACAGACAGATTAAGAA 1805
 Qy 210 GluHISaPValTrpArg-----MetGluIle 218
 Db 1806 CAACGAGCTTGCTGCGCCGCCCAAGCAACAGTCCGTGTAAGTATGATGAGAGCT 1865
 Qy 219 TrpValSerLeuGlyIleValIleGluAlaIleLeuAlaLeuAlaValThrSerIle 238
 Db 1866 TACTTTCACTGCTGCGCTGACAGAGCTTCCCTGATGCT---CAGCGGTAAGAAATCTG 1922
 Qy 239 ProSerValSerAaP-----SerLeuThrTrpArgGluPheHISTrpIleGln 254
 Db 1923 CTTCACTGACAGAGACAGAGGCTCACTCCCTGCGCTGGAAAGC-----CCTCTGAG 1976
 Qy 255 SerLysLeuGlyIleValSerLeuLeu----- 264
 Db 1977 AAAGAAATGGAAACCTACTCCAGTATCTTGAAGTGAAGAGTCCGTGCGAGTAACGCC 2036
 Qy 265 -----GlyThrIleHISAlaLeuIlePheAlaTrpAaLysTrpIleAaPTrIleLysGln 282
 Db 2037 TGAAGGCTTCACTGCAACGGGGTCCCAAGAGTTGATGAAGATCGGACACTACTAG 2096
 Qy 283 PheValTrpTrpProThrProThrPheMetIleAlaValPheLeuProIleValIle 302
 Db 2097 -----GAACTAACTTTCACCTTCTGCTTG 2123
 Qy 303 IlePheLysSerIleLeuPheLeuPro 311
 Db 2124 GTTGAAGAAAGTCTTTCTGACTTCCC 2150
 RESULT 4
 US-10-793-626-1307
 ; Sequence 1307, Application US/10793626
 ; Publication No. US20050255478A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KIMMERLY, WILLIAM JOHN
 ; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 ; FILE REFERENCE: PU3480US
 ; CURRENT APPLICATION NUMBER: US/10/793,626
 ; PRIOR FILING DATE: 2004-03-04
 ; PRIOR APPLICATION NUMBER: 60/164,258
 ; NUMBER OF SEQ ID NOS: 4472
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1307
 ; LENGTH: 819
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: synthetic
 ; OTHER INFORMATION: nucleic acid sequence
 ; US-10-793-626-1307

Alignment Scores: 0.878 Length: 819
Pred. No.: 93.50 Matches: 62
Score: 39.47% Conservative: 43
Percent Similarity: 23.31% Mismatches: 82
Best Local Similarity: 5.22% Indels: 79
Query Match: 6 Gaps: 16
DB:

US-10-750-262-2 (1-339) x US-10-793-626-1307 (1-819)

```
QY 64 ThrglnGluLeuPheProGlnTrp-----HisLeuProIleuValAlaAlaIle 81
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 202 ACACACAGGAGCAGCCAGCAATGTTGATCATTTTTCATTAACTTAAAGTTTGATG 261
QY 82 Alaser-----LeuThrPheLeuTyThrLeuLeuArgGluValIleHisProLeu 98
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 262 GCTCAAGGCTAAATATGATGTTATCTTTTAAATCAATGCTGATTTAAATATGATG 321
QY 99 AlaThrSerHisGlnGlnTyPheTyIleProIleLeuValIleAsnLeuValLeu 118
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 322 -----ATGACAGCAACAAATG-----ATAGTTGCAAGAAATAAATAT 360
QY 119 PrometValSerIleThrLeuLeuAlaLeuValTyLeuProGlyValIleAlaIle 138
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 361 AAAATGTTAATGTTGGCATTT-----GTCGATATTTATTTATTTATTAATGCGGGTG 414
QY 139 ValGlnLeuHisAsnGlyThyIleTyIleTyIleTyIleTyIleTyIleTyIleTyIle 158
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 415 ATT-----GGAACA-----TCATTACCTTAATCATTTA---AGTTATCAT 450
QY 159 LeuThr-----ArgIleGlnPheGlyLeuLeuSerPhePheAlaValLeuHis 175
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 451 CTCACGCAATACGACACAGTACGCTACGCTATTTAAATCACCATATGTTGTTAGTT 510
QY 176 AlaIleTySerLeuSerTyIle-----PrometArgIleSerTyArgTyIleLeu 193
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 511 ACTTTATATTCATGCTATTTCTTACGTCATGTCAGAACAAATCATTTAATGATGTC 570
QY 194 AsnTrpAlaTyIleGlnValGlnGlnAsnLeuGluAspAlaTrpIleGluHisAsp--- 212
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 571 -----ATCATCCATGAAATTA 585
QY 213 -----ValTrpArgMetGluIleTyValSerLeuGlyIleValGlyLeuAlaIle 230
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 586 GGAAGAGTATGAAATGACAAATTT-----GTAAATGTTTGTCTATTTCTT 630
QY 231 AlaLeuLeuAlaValThrSerIleProSerValSerAsp---SerLeuThrTrpArgGlu 249
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 631 -----ATGAAACAGATCGTACATGTTTACGACATGTCATGATTTTGAATTT 678
QY 250 PheHisTyIleGlnSerTyLeuGlyIleValSerLeuLeuGlyThrIleHisAla 269
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 679 TTTCATATATGCTGATTTGCTACGCGACCTACATATCTATATATTTAAATCGCGGATAT 738
QY 270 LeuIlePheAlaTrpAsnLeuTyTrpIleAspIleLeuGlnPheValIleTyTrpPro 289
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 739 TTAATGTCCTTAT----- 753
QY 290 ThrPheMetIleAlaValPheLeuProIleValValLeuIlePheTySerIleLeuPhe 309
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 754 -----ATATTTCAGATGATTTTGCAGTGTATCTTTT 786
QY 310 LeuProCysLeuArgIle 315
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 787 ATAGAAATTTTATGTAG 804
```

RESULT 5

US-10-793-626-3595/c
; Sequence 3595, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS

FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3595
; LENGTH: 3263
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: nucleic acid sequence
US-10-793-626-3595

Alignment Scores:

Pred. No.: 9.4 Length: 3263
Score: 92.50 Matches: 60
Percent Similarity: 38.59% Conservative: 55
Best Local Similarity: 20.13% Mismatches: 91
Query Match: 5.17% Indels: 92
DB: 6 Gaps: 15

US-10-750-262-2 (1-339) x US-10-793-626-3595 (1-3263)

```
QY 98 LeuAlaThrSerHisGlnGlnTyPheTyIle-----Ile 109
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1572 TTGGCTCAATCAGAAAGAAATTTTACCTTAGAAGATTACATTCCTTTAGCGGTTATT 1513
QY 110 ProIle-----LeuValIleAsn----- 115
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1512 CCGATAGGTGCAATTTTATTTATGATACCTTAATGCTTAACATCAAGCAACGAGGTGCT 1453
QY 116 -----LysValLeuPrometValSerIleThrLeu 125
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1452 GAAGCTTTTAAATAGAGCTTCAGAGATTATGAAATCTTATACCATTTTGATGAA 1393
QY 126 LeuAlaLeuValTyIleuProGlyValIleAlaIleValGlnLeuHis----- 142
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1392 TTTATCTTATTTAATACCATTTGTTATACCATGTTGTTGCGTTTACATCGCATTC 1333
QY 143 -----AsnGlyThrIleTyIleTyIleTyIleTyIleTyIleTyIleTyIle 158
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1332 ACTGCTAAGAGAACATCGGCGCATTTACATATTTAGAACTGAGATG-----TTT 1282
QY 159 LeuThrArgIleGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaIleTy 178
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1281 TTCTTCAACGCTAGTATGTTTATGATTTGTTTATGCAATGCACTTA----- 1228
QY 179 SerLeuSerTyIlePrometArgIleSerTyArgTyIleTyIleLeuLeuAsnTrpAlaTy 197
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1227 -----TGCAAAACAGTTTGCAAAAAGCTTTTATGCT 1195
QY 198 GlnGlnValGlnGlnAsnLeuGluAspAlaTrpIleGluHisAspValTrpArgMetGlu 217
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1194 AAATCTGTGACATTAATCTAATGACATGAACATTCACACATCCGTTATGGGCATC--- 1138
QY 218 IleTyValSerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuAlaValThrSer 237
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1137 TTTTACATTT-----ATTGATGTCATGCTGTGTTTCCATTTTGTCT 1096
QY 238 IleProSerValSerPheSerLeuThrTrpArgGluPheHisArgTyIleGlnSerTyLeu 257
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1095 AATGTTTATGTCATTTTGTGTAACATG-----GCGTTTACAAATCTTAAAAA 1045
QY 258 Gly-----IleValSerLeuLeuGlyThrIleHis 268
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1044 TCACACAGCTGTTTATCTGATTTTCACTCATATGATTTTATGATGATTTCTATATGCT 985
QY 269 ---AlaLeuIlePheAlaTrp-----AsnLeuTyTrpIle 278
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 984 GTTCAGCGCGTATTTGGTTATATAGATATACGAATTTTATGAAACAAACGAGATA 925
```

QY 279 Asplle-----LysGlnPheValTrpTyThrProThrPheMetIleVal 294
Db 924 TAGATTAATTTACTACTAGAAATTTAGAAACGTTAAATACTGTTTGGATTAGT 865
QY 295 ValPheLeuProIleValVal-----LeuIlePheLysSerIleLeuPheLeu 310
Db 864 TTTATCTGAAATTTAAAGTAGGCTTTAGATTAAATATTCAGGAGACATTCTCA 805
QY 311 ProCysLeuArgLysLysIleLeuLysIle-ArgHisGlyTrpGluAspVal 327
Db 804 TCGCAGAGAAAAATTAATGTTGTGCGTGAGAGACTGCTGATGTC 753

RESULT 6

US-10-793-626-3305
Sequence 3305, Application US/10793626
Publication No. US20050255478A1
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU448005
CURRENT APPLICATION NUMBER: US/10/793,626
CURRENT FILING DATE: 2004-03-04
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO: 3305
LENGTH: 1179
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-10-793-626-3305

Alignment Scores:

Pred. No.:	3.43	Length:	1179
Score:	90.50	Matches:	56
Percent Similarity:	40.56%	Conservative:	45
Best Local Similarity:	22.49%	Mismatches:	75
Query Match:	5.06%	Indels:	73
DB:	6	Gaps:	15

US-10-750-262-2 (1-339) x US-10-793-626-3305 (1-1179)

QY 39 LysArgProValLeuLeuHisLeuHisGlnThrAlaHisAlaSer-----GluPheAsp 56
Db 541 AAGGAAGATGAATGTCATCAATCCAAATCAACACCTGTCATCTAGTATTGATCAACA 600
QY 57 CysProSerGluLeuGlnHisGlnGlnLeuPheProGlnTrpHisLeuProIleLys 76
Db 601 ACTGGCTCAAGCTCATAGACCTCGTAGGGTTTAA-----TATCTGATGATTACA 654
QY 77 IleAlaIleIleIleAla-----SerLeuThrPheLeuTyThrIleLeuValGluValIle 95
Db 655 TTTTAGTGTGCTGCTGATTTCTGTATCTGTACATTCGTGTT-----ATT 696
QY 96 HisProLeuAlaHisSer-----HisGlnGlnTyPheTyLysIleProIleLeuVal 113
Db 697 AATCCATTATTTATTCACATGACATGAATGCTTTGTGCTTAGACACTAGTGT 756
QY 114 IleAsnLysValLeuProMetValSerIleThrLeuLeuAlaLeuValTyLysProGly 133
Db 757 ---AATGCTGACGAGCTGTGATGCTGCTGCTCA-----TTAGGCGCT 795
QY 134 ValIleAlaIleValGlnLeuHisAsnGlyThrTyLysLysPheProHisTrp 153
Db 796 GTTTATCT-----TTAGGCGCT 804
QY 154 LeuAspLysTrpMetLeuThrArgLysGlnPheGlyLeuLeuSerPhe-----PhePheAla 172
Db 805 ---GATAGATT-----ACTAGTAGGCTGTGTTAATGATTTCATTTCAATATTATTA 855

QY 173 ValLeuHisAlaIleTySerIleuSerTyPro-----MetArgAspSer 187
Db 856 ATTAATGATGATATTTCTTAATCTTATTTATTAACAGAAACGATTTATTAAGTTGGCTTA 915
QY 188 TyrArgTyLysLeuLeuAsnTrpAlaTyGlnGlnValGlnHisAsnLysGluPheAla 207
Db 916 TTTATGTGAAATTTAATGACGTGAGTCAAAATCCAGCTATTCAAGTGATTAATTCGA 975
QY 208 TrpIleGluHisAspVal-----TrpArgMetGluIleTyValSerLeu 222
Db 976 CACGTGGAAGGATATACCAAGCAAGTGAATGATGATGATATGTGC-----AGTCTC 1026
QY 223 -----GlyIleValGlyLeuAlaIleLeuAlaIleLeuAlaVal 235
Db 1027 AATGCCGATTTGGCGTGGCGAATCGTAGCTGACTGTTATGACACATTATTCAGTG 1086
QY 236 ThrSerIleProSerValSerAspSerLeuThrTrpArgGluPheHisTyTrpIleGlnSer 255
Db 1087 GAATATGTTACT-----TATACTAGTGCA 1110
QY 256 LysLeuGlyIleValSerLeuLeu 264
Db 1111 TTGATAGGTTAATTAATGCTTATCATTT 1137

RESULT 7

US-11-110-977-1
Sequence 1, Application US/11110977
Publication No. US20050260682A1
GENERAL INFORMATION:
APPLICANT: Charmsley, Patrick R.
APPLICANT: Smith, Ryan C.
APPLICANT: Argonza-Barrett, Rhodora H.
APPLICANT: Fitzgibbon, Matthew P.
APPLICANT: Wang, Kai P.
TITLE OF INVENTION: Compositions and Methods for Diagnosing or Treating Psoriasis
FILE REFERENCE: CECH18764
CURRENT APPLICATION NUMBER: US/11/110,977
CURRENT FILING DATE: 2005-04-19
PRIOR APPLICATION NUMBER: US/10/112,645
PRIOR FILING DATE: 2002-03-28
PRIOR APPLICATION NUMBER: US 60/280,514
PRIOR FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patent In version 3.1
SEQ ID NO 1
LENGTH: 1564
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (314) ..(1138)
OTHER INFORMATION:
US-11-110-977-1

Alignment Scores:

Pred. No.:	5.26	Length:	1564
Score:	90.50	Matches:	42
Percent Similarity:	39.91%	Conservative:	49
Best Local Similarity:	18.42%	Mismatches:	75
Query Match:	5.06%	Indels:	62
DB:	7	Gaps:	8

US-10-750-262-2 (1-339) x US-11-110-977-1 (1-1564)

QY 134 ValIleAlaIleValGlnLeuHisAsnGlyThrLysTyLysLysPheProHisTrp 153
Db 286 GTGTTGAGTAAACAGACAGTGGATGATCGGGAATTTAGAGGTCAAGCCCTCCCTGG 345
QY 154 LeuAspLysTrpMetLeuThrArgLysGlnPheGlyLeuLeuSerPhePheAlaVal 173
Db 346 -----AACCTCTTTTATTTATTTATTTGCTTTG 372

Qy	149	-----LyPheProHisIstriPheuAplysTrpMet-----LeuThr-----Argly	162
Db	18435	TTTTATATCAATTTCTCTCATAGGCTTAGAATTTGGTTTTCAGGCTTAACCTGAATGAAAG	184295
Qy	162	s-----GlnPheGlyLeuLeuSerPhePheAlaValIleuHisAlaIleTyrSerle	180
Db	184295	GAAITTAATAATTCCTCTCTCTCTCTCATGCGTAGCCCTTCGACCATTCCTAATTTGCT	184335
Qy	180	user-----TyrProMetArgArgSerTyrArgTyrIysLeu	193
Db	184355	TAAITGGCTCTGTACCCCTCGTTTCCAGTC-----TATATATCTCTG	184395
Qy	193	uAenTrrAlaTyrGlnGlnValGlnIleHisnlySGluApeAlaTrrIleGlnHisApeVa	213
Db	184400	CTAATGGGATATCAAAAACCTAGTC-ActAATATCAAAAGAGCTGTGCCAGATGT	184457
Qy	213	1-----Trp-----ArgMetGluIleTyrValSerle	222
Db	184458	GACTGTGAGATTATGGCTGCTTGGCTTGGCCCTCCCAAGAAAGACCTCATCAAGCCG	184517
Qy	222	uGlyIleValIglyLeuAlaIleLeuAlaLeuAlaValThrSerIleProSerValse	242
Db	184518	TGGCTTCAGAGAAAAGGAGAGTGTTAGTCAGTTGT-----TCGGCTTC	184559
Qy	242	rlaPseSerLeuThrTrpArg-----	248
Db	184560	CTCTTGTCTTACCTTCAGGTTTAAATCAAGTAAGCTTGACATGATTACTCCCTGTGG	184619
Qy	249	-----GluPheIleTyrIleGlnSerIysLeuGlyIleValSerLeuLeu	264
Db	184620	GACACATGTGGCATTCAGTTACTTTCGACATACAAAGATTGGCTTCTT---CTCATTTCT	184676
Qy	264	uGlyThrIleHisAlaLeuIlePheAlaTrrPasnlyStrIleAspIleIyGlnPheVa	284
Db	184677	AGACACACATC-----	184686
Qy	284	lTrrPyrThrProProThrPheMetIleAlaValPheLeuProIleValIleuIlePh	304
Db	184687	-TGGTGCAGTGTACCTCACTTGTGTTAAGTTATTCTGTATGTTTATCTTGT	184745
Qy	304	e 304	
Db	184746	T 184746	
RESULT 10			
US-10-793-626-4225/c			
: Sequence 4225, Application US/10793626			
: Publication No. US20050255478A1			
: GENERAL INFORMATION:			
: APPLICANT: KIMMERLY, WILLIAM JOHN			
: TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS			
: FILE REFERENCE: PUJ480US			
: CURRENT APPLICATION NUMBER: US/10/793, 626			
: PRIOR FILING DATE: 2004-03-04			
: PRIOR APPLICATION NUMBER: 60/164, 258			
: NUMBER OF SEQ ID NOS: 4472			
: SOFTWARE: PatentIn Ver. 2.1			
: SEQ ID NO 4225			
: LENGTH: 3083			
: TYPE: DNA			
: ORGANISM: Artificial Sequence			
: FEATURE:			
: OTHER INFORMATION: Description of Artificial Sequence: synthetic			
US-10-793-626-4225			
Alignment Scores:			
Pred. No.:			
Score:			
Best Similarity:			
Percent Similarity:			
Best Local Similarity:			
Query Match:			
	37.9	Length:	3083
	87.00	Matches:	80
	32.58%	Conservative:	35
	22.66%	Mismatches:	103
	4.86%	Indels:	135

Db 2031 TGAATTCGCTGATATCGCGTTTGCATTTGATTCGATCGCGCATTAAGCGGT 1972
 Qy 236 rSerleProSerValSerApeSerLeuThrTTPArgGluPheHisTyrIleGlnSerly 256
 Db 1971 TACATTAACCAAGATTGGC-----ATACATTTGGGTGATGA 1933
 Qy 256 sLeuGly-----IleValSerLeuLeuGlyThrIleHisAlaLeuIle----- 271
 Db 1932 CTAGGCGCAATTAATGTTATGTTTCTTGGTGAAGATAGGTGATCTTGAATGATG 1873
 Qy 272 -----Ph 272
 Db 1872 TGCAGCACTGTTGTTGATGAAATTTGATATAATATCCAGACTGAAGTGTGCGTT 1813
 Qy 272 eAlaTTPAsnlySTrPleAspIleLeuGlnPheVal-TTPYrThrProProThrPheM 292
 Db 1812 TGCATTTGAGTGTGGGTATGATTAACCTGTTATTAATGTATC----- 1769
 Qy 292 eCilleAlaValPheLeuProIleValIleuIlePhe 304
 Db 1768 -----TTGCACATCTCGATATTTGCGCTT 1745
 RESULT 12
 US-10-793-626-3381/c
 ; Sequence 3381, Application US/10793626
 ; Publication No. US2005025478A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KIMMERLY, WILLIAM JOHN
 ; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
 ; FILE REFERENCE: PUJ48005
 ; CURRENT APPLICATION NUMBER: US/10/793,626
 ; CURRENT FILING DATE: 2004-03-04
 ; PRIOR APPLICATION NUMBER: 60/164,258
 ; PRIOR FILING DATE: 1999-11-09
 ; NUMBER OF SEQ ID NOS: 4472
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 3381
 ; LENGTH: 4071
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: synthetic
 ; OTHER INFORMATION: nucleic acid sequence
 US-10-793-626-3381

Alignment Scores:
 Pred. No.: 57.9 Length: 4071
 Score: 87.00 Matches: 67
 Percent Similarity: 35.71% Conservative: 38
 Best Local Similarity: 22.79% Mismatches: 95
 Query Match: 4.86% Gaps: 94
 Db: 6 Indels: 13

US-10-750-262-2 (1-339) x US-10-793-626-3381 (1-4071)
 Qy 73 LeuProIleuValIleAlaIleIleAlaSerLeuThrPheLeuTyrThrLeuLeu-Ar 92
 Db 1305 CTTCGGGTAAAGTGGGCAAAAATAATGCTAAGTAGACCTTGGTATTAATTAAGCATAG 1246
 Qy 92 gCgiValIleHisProLeuAlaThrSerHisGlnGlnIleTyrPheTyr-----Ly 108
 Db 1245 GTCTCTT-----TATTTGATTTAAACTAAAGGA 1216
 Qy 108 eIleProIleLeuValIleHisValLeuProMetValSerIleThrLeuLeuAla 128
 Db 1215 GTTGTCCACAAATGATCCGATTTGATTTTACCTTATTTATGGGA-----CTTTAGTACT 1159
 Qy 128 uValTyrLeuProGlyValIleAlaIleValIleGlnLeuHisAsnGlyThrIleTyrIly 148
 Db 1158 TGAATTTTGAAGAAGATTTATAGCACTGATTAATGCAATTTGAATGCGGTAATGCTTAA 1099
 Qy 148 sLyPheProHisTTPLeuAspIleTyrMetLeuThrArgIleGlnPheGlyLeuLeu 168

Db 1098 ACATTTACCACTTAACCAACGTAATAAAGACATTTT-----TATGCGCTATTAGG 1048
 Qy 168 rPhePhePheAlaValLeuHisAlaIleTyrSerLeuSer----- 181
 Db 1047 TGCATTCATTTTATGATTTATGCTTATTTTAAATGATTTATTCGAACTTGTGCG 988
 Qy 182 -----TyrProMetArgArgSerTyrArgTyrIleLeuLeu 194
 Db 987 GATTCACAGCAGAGGTCTGTTTACTTATCTATATGCTATTAATA-----AATTTATGGA 931
 Qy 194 nTPAlaTyrGlnGlnValGlnGlnAsnIleValAspAlaTTPIleGlnHis----- 211
 Db 930 ATTTTTCATTCAGTCATTAATGAAACACCATTAAGAACAGAGACGAAATCATTTGCA 871
 Qy 212 -----AspValTTPArgMetGluIleTyrVa 220
 Db 870 TGAACAGGCAACGAAAAAGAGTAGCCCTTAATCTTTTGGGGAACGATTTTAAAGT 811
 Qy 220 lSerLeuGlyIleValGlyLeuAlaIle-----LeuAlaLeuAlaVal---Th 236
 Db 810 TGAATTCGCTGATATCGGTTTGCATTTGATTCGATTCGCGCATTAAGCCGT 751
 Qy 236 rSerleProSerValSerApeSerLeuThrTTPArgGluPheHisTyrIleGlnSerly 256
 Db 750 TACATTTACCAAAAGTTGCG-----ATACATTTGGGTGATGA 712
 Qy 256 sLeuGly-----IleValSerLeuLeuGlyThrIleHisAlaLeuIle----- 271
 Db 711 CTAGGCGCAATTTATGTTATGTTCTTGTGGAAATGATAGGTGATCTTGAATGAGATT 652
 Qy 272 -----Ph 272
 Db 651 TGCAGCACTGTTGTTGATGAAATTTGATATAATATCCAGACTGAAGTGTGCGTT 592
 Qy 272 eAlaTTPAsnlySTrPleAspIleLeuGlnPheVal-TTPYrThrProProThrPheM 292
 Db 591 TGCATTTGAGTGTGGGTATGATTAACCTGTTATTAATGTATC----- 548
 Qy 292 eCilleAlaValPheLeuProIleValIleuIlePhe 304
 Db 547 -----TTGCACATCTCGATATTTGCGCTT 524

RESULT 13
 US-10-467-657-4965
 ; Sequence 4965, Application US/10467657
 ; Publication No. US20050260581A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CHIRON SpA
 ; APPLICANT: FONTANA Maria Rita
 ; APPLICANT: PIZZA Mariagrazia
 ; APPLICANT: MASIGNANI Vega
 ; APPLICANT: MONACI Elisabetta
 ; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
 ; FILE REFERENCE:
 ; CURRENT APPLICATION NUMBER: US/10/467,657
 ; CURRENT FILING DATE: 2003-08-11
 ; PRIOR APPLICATION NUMBER: GB-0103424.8
 ; PRIOR FILING DATE: 2001-02-12
 ; NUMBER OF SEQ ID NOS: 9218
 ; SOFTWARE: SeqWin99, version 1.04
 ; SEQ ID NO 4965
 ; LENGTH: 1068
 ; TYPE: DNA
 ; ORGANISM: Neisseria gonorrhoeae
 US-10-467-657-4965
 Alignment Scores:
 Pred. No.: 9.9 Length: 1068
 Score: 86.00 Matches: 67
 Percent Similarity: 37.09% Conservative: 45
 Best Local Similarity: 22.19% Mismatches: 112
 Query Match: 4.80% Indels: 78

RESULT 15
US-10-2750-185-37763/c: 10/10/10
; Sequence 37763, Application US/10750185
; Publication No. US20050260603A1

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1 GENERAL INFORMATION:
2 APPLICANT: MMI GENOMICS, INC.
3 APPLICANT: DENISE, Sue K.
4 APPLICANT: KERR, Richard
5 APPLICANT: ROSENFELD, David
6 APPLICANT: HOLM, Tom
7 APPLICANT: BATES, Stephen
8 APPLICANT: PANTIN, Dennis
9 TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
10 FILE REFERENCE: MM1100-2
11 CURRENT APPLICATION NUMBER: US/10/750,185
12 CURRENT FILING DATE: 2003-12-31
13 PRIOR APPLICATION NUMBER: US 60/337,482
14 PRIOR FILING DATE: 2002-12-31
15 NUMBER OF SEQ ID NOS: 64922
16 SOFTWARE: PatentIn version 3.1
17 SEQ ID NO 37763

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ORGANISM: Bovine 19866881070185
US-10-750-185-37763
Alignment Scores:

Printed. No.:	18.3	Length:	146
Score:	85.50	Matches:	36
Percent Similarity:	39.00%	Conservative:	42
Best Local Similarity:	23.00%	Mismatches:	78
Query Match:	4.78%	Indels:	44
DB:	6	Gaps:	7

US-10-750-262-2 (1-339) x US-10-750-185-37763 (1-1462)

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105 YRPHELYRLYSIIIEPro-IIIEuValIIIEaNLyValLEuPromerValSerIeNh 124
1426 TATTGGTACTATGGCCCACTATATGCCATTGTAATAACAAAGTTGTATGATGTTT 136T
124 rLEuLeuAlaLeuValTYrLEuProGlyValIIIEaAlaIIIEValGlnLeuHIEaGnI 144
1366 TTGGATATATGTCCAATACCACTAGTACTAGCTGTTGGCACTGTCNAAGTATTTTCTACTT 130T
144 YThLysTYrLYlValbPheProHIIstrLEuAspLYstrIPErLEuThArgLYsGln-- 163
1306 CTTTAAAGTAGCAACATTTCGCCACCCCTGCTCACTTGCTGCTGGGTGGCAATTCGTAG 124T

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Qy      164 -----PhgIIuLeuSerLeuPhePhePheAlaValLeuHisAla11 177
Db      1246 TGTGTGACTGCGTCTTCTTGGGGCTTTGTCCTTACTGTTTTGGAATTATGAACTCAAT 118
Qy      177 eTySerLeuSerTyPromeLeArgSerTyArgTyArgTySLeuLeuAsn-----Tr 195
Db      1186 ATATACACTTACTCATATCTTAACCTAACAGCTACCAAAATATATGTGAAGAACTCAACGTC 112
Qy      195 pAlaTyArgInGlnValGlnGlnAsnLysGluAspAlaTrpIleGlnHisAspValTrpAr 215
Db      1126 GTCC-----TCAGATGTAAGTGAACATCAATTACTTCACCA 109
Qy      215 GmeGluIleTyValSerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaVa 235
Db      1090 GTGATATTTTAACTTCACTCACTTAATCCCTTT-----CTTCTGTGCTCT 104
Qy      235 lThsSerLe----- 238
Db      1042 GACCTCACTGCTCCCTTAGTCTCTCTCTGTATGAGACACATCAGAAATTGGCACTTCA 983
Qy      239 -ProSerValSerAspSerLeuThrTrpArgGluPheHisIleTyIleGlnSerLysLeuGl 258
Db      982 CCCCACTCAAAAGATCTCAGACACA-----GAGGCCATAAAGAGACATGAAATATGCT 929
Qy      258 yIleValSerLeuLeuGlyThrIleHisAla-----LeuIlePheAlaTrp 274
Db      928 GATGCTTCTCTCTTCCCTTCACTCACTTCAATGCTCTTCCATCTATTAAATAGCTGG 871

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Search completed: December 6, 2005, 18:50:55
Job time : 320 secs

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OM protein - nucleic search, using frame_plus_p2n model

Run on: December 6, 2005, 16:29:53 (Search time 200 Seconds)

(without alignments)
3012.967 Million cell updates/sec

Title: US-10-750-262-2

Perfect score: 1790
1 MESRRDINOBELMKKPRR.....IRHGWEDYKINKTICGSQL 339

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Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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-LOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blomsum62 -TRANS=human40.cdi
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-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -MAIN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database:

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8: /cgn2_6/ptodata/1/ina/RE.COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1790	100.0	1193	3	US-09-455-486-1
2	1790	100.0	1193	3	US-09-323-873A-1
3	1790	100.0	1195	3	US-09-685-166A-878
4	1790	100.0	1195	3	US-09-679-426-878
5	1790	100.0	1195	3	US-09-759-143-878
6	1790	100.0	1195	3	US-10-010-667A-1
7	1790	100.0	1195	3	US-10-012-896-878
8	1790	99.6	1147	3	US-09-949-016-2686
9	1358.5	75.9	3627	3	US-09-323-873A-6

10	1358.5	75.9	3627	3	US-09-455-486-4	Sequence 4, Appl1
11	1358.5	75.9	3627	3	US-10-010-667A-6	Sequence 6, Appl1
12	1071.5	59.9	9073	3	US-09-949-016-14428	Sequence 14428, A
C 13	905	50.6	592	3	US-09-439-313-342	Sequence 342, App
C 14	905	50.6	592	3	US-09-352-616A-142	Sequence 342, App
C 15	905	50.6	592	3	US-09-636-215-342	Sequence 342, App
C 16	905	50.6	592	3	US-09-685-166A-342	Sequence 342, App
C 17	905	50.6	592	3	US-09-679-426-342	Sequence 342, App
C 18	905	50.6	592	3	US-09-759-143-342	Sequence 342, App
C 19	905	50.6	592	3	US-09-651-236-342	Sequence 342, App
C 20	905	50.6	592	3	US-09-657-279-342	Sequence 342, App
C 21	905	50.6	592	3	US-10-012-896-342	Sequence 342, App
C 22	741	41.4	2714	3	US-09-562-930-5	Sequence 5, Appl1
C 23	741	41.4	3884	3	US-09-562-930-10	Sequence 10, Appl1
C 24	717	40.1	2453	3	US-09-455-486-5	Sequence 1185, Ap
C 25	717	40.1	1469	3	US-10-104-047-1185	Sequence 5, Appl1
C 26	715	39.9	1403	3	US-10-012-896-995	Sequence 995, App
C 27	713.5	39.9	1886	3	US-09-562-930-1	Sequence 3, Appl1
C 28	651	36.4	2118	3	US-09-562-930-3	Sequence 6, Appl1
C 29	637.5	35.6	2188	3	US-09-562-930-6	Sequence 7, Appl1
C 30	625	34.9	4429	3	US-09-455-486-7	Sequence 993, App
C 31	607	33.9	848	3	US-10-012-896-993	Sequence 7, Appl1
C 32	576	32.2	519	3	US-10-010-667A-7	Sequence 7, Appl1
C 33	576	32.2	521	3	US-09-323-873A-7	Sequence 7, Appl1
C 34	497	27.8	1213	3	US-09-083-521-3	Sequence 3, Appl1
C 35	450	25.1	455	3	US-09-621-976-9264	Sequence 9264, Ap
C 36	400	22.3	366	3	US-09-030-607-215	Sequence 215, App
C 37	400	22.3	366	3	US-09-439-313-215	Sequence 215, App
C 38	400	22.3	366	3	US-09-352-616A-215	Sequence 215, App
C 39	400	22.3	366	3	US-09-232-149A-215	Sequence 215, App
C 40	400	22.3	366	3	US-09-159-812-215	Sequence 215, App
C 41	400	22.3	366	3	US-09-636-215-215	Sequence 215, App
C 42	400	22.3	366	3	US-09-685-166A-215	Sequence 215, App
C 43	400	22.3	366	3	US-09-115-453-215	Sequence 215, App
C 44	400	22.3	366	3	US-09-688-489-215	Sequence 215, App
C 45	400	22.3	366	3	US-09-679-426-215	Sequence 215, App

ALIGNMENTS

RESULT 1
US-09-455-486-1
Sequence 1, Application US/09455486
Patent No. 6833438
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas C. Saitan
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
FILE REFERENCE: 129.17-US-11
CURRENT APPLICATION NUMBER: US/09/455,486
PRIOR FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (64)...(1083)
US-09-455-486-1
Alignment Scores:
Pred. No.: 1 09e-202
Score: 1790.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Length: 1193
Matches: 339
Conservative: 0
Mismatch: 0

Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0
US-10-750-262-2 (1-339) x US-09-455-486-1 (1-1193)

1 MetGluSerArgIleuAspIleThrAsnGlnGluLeuTyrLysMetLysProArgArg 20
64 ATGGAACACAGAAAAGACATCAACAACAGAAAGAACTTTGGAAAATGAGCTTAGAGGA 123
21 AsnLeuGlnGluAspArgTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
124 AATTAGAAAGAGAGATTAATTTGATAGAGACAGAGAGAGACAGCATGCTTAAAAAGA 183
41 ProValLeuLeuHisLysGlnThrAlaHisLysAspGluPheAspCysProSerGlu 60
184 CCTGGCTTTTGACATTTGACCAACAGGCCCATGCTGATGATTTGACCTGCCCTCAGA 243
61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLysProIleLysIleAlaIle 80
244 CTTCAACACACACAGGAATCTTTCCACAGTGGACATTCCTCAATTAATTAAGCTGTAT 303
81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
304 ATAGCATCTCTGACCTTTCTTACACTCTTGAAGGAAATTAATCACTTATAGCACT 363
101 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuProMet 120
364 TCCCATCAACAAATTTTATTAATAATTCATCTGCTCATCAACAAGCTTGGCAATG 423
121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaAlaIleValGln 140
424 GTTTCATCACTCTCTGGCATTTGGTTTACCTCCAGTGTGATACAGCAATTTGCCAA 483
141 LeuHisAsnGlyThrLysTyrLysLysPheProHisIleTrpLeuAspLysTrpMetLeuThr 160
484 CTTCAATATGGAACCAAGTATTAAGATTTCCACATTTGATGAAGTGAAGTATTAACA 543
161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaIleTyrSerLeu 180
544 AGAAGAGATTTGGCTTCTCAAGTTCTTTTGGCTGCTACTGCATGCAATTTATAGCTG 603
181 SerTyrProMetArgArgSerTyrArgTyrLysLeuLeuAsnTrpAlaTyrGlnGlnVal 200
604 TCTTCCCATGAGCGCATCTCAAGATCAAGTATCAAGTGTAAAGTGGCATTTCAACAGTC 663
201 GlnGlnAsnLysGluAspAlaTrpIleGlnHisAspValTrpArgMetGluIleTyrVal 220
664 CAACAATAAAGAAAGATGCTGATTTGAGCATGATGTTGGAGAAATGAGATTTATGTG 723
221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValThrSerIleProSer 240
724 TCTCTGGAAATTTGGGATTTGGCAATACAGCTGCTGTTGGCTGTGACATCTATTCATCT 783
241 ValSerAspSerLeuThrTrpArgGluPheHisTyrIleGlnSerLysLeuGlyIleVal 260
784 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAAGCAACAGCTAGGAATGTT 843
261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaIleTrpAsnLysTrpIleAspIle 280
844 TCCCTTACTAGGACACAAATACAGCATTTGATTTTGGCTGAAATTAATGTGATGATATA 903
281 LysGlnPheValTrpTyrThrProProThrPheMetIleAlaValPheLeuProIleVal 300
904 AAAAATTTGATGATATACCTTCACTTATATGATAGCTGTTTCTTCCAAATGCTT 963
301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
964 GTCTGATATTTAAAGACATCTATTCTGCGCATCTTGAGGAGAGAAATGATGAAGATT 1023
321 ArgHisGlyTyrGluAspValThrLysIleAsnLysTrpGlnIleCysSerGlnLeu 339
1024 AGACATGTTGGGAGAGACGTCAACAATAATTAACAATACTGAGATATGTTCCAGTTG 1080

RESULT 2
US-09-323-873A-1
/ Sequence 1, Application US/09323873A
/ Patent No. 6329503
/ GENERAL INFORMATION:
/ APPLICANT: Daniel E. Afar
/ APPLICANT: Rene S. Hubert
/ APPLICANT: Kahan Leong
/ APPLICANT: Arthur B. Raitano
/ APPLICANT: Douglas C. Saffran
/ APPLICANT: Steve Chappell Mitchell
/ TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
/ TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USBS THEREOF
/ FILE REFERENCE: 129 16USU2
/ CURRENT APPLICATION NUMBER: US/09/323,873A
/ CURRENT FILING DATE: 1999-06-01
/ PRIOR APPLICATION NUMBER: 60/087,520
/ PRIOR FILING DATE: 1998-06-01
/ PRIOR APPLICATION NUMBER: 60/091,183
/ PRIOR FILING DATE: 1998-06-30
/ NUMBER OF SEQ ID NOS: 32
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 1195
/ TYPE: DNA
/ ORGANISM: Homo Sapiens
/ US-09-323-873A-1

Alignment Scores:
Pred. No.: 1,096-202 Length: 1195
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 3 Indels: 0
Gaps: 0

US-10-750-262-2 (1-339) x US-09-323-873A-1 (1-1195)

1 MetGluSerArgIleuAspIleThrAsnGlnGluLeuTyrLysMetLysProArgArg 20
66 ATGGAACACAGAAAAGACATCAACAACAGAAAGAACTTTGGAAAATGAAAGCTTAGAGGA 125
21 AsnLeuGlnGluAspArgTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
126 AATTAGAAAGAGAGATTAATTTGATAGAGACAGAGAGAGACAGCATGCTTAAAAAGA 185
41 ProValLeuLeuHisLysGlnThrAlaHisLysAspGluPheAspCysProSerGlu 60
186 CCTGCTTTTGGATTTGACCAACAGGCCCATGATGATGAATTTGACCTTCCAGAA 245
61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLysProIleLysIleAlaIle 80
246 CTTCAACACACACAGGAATCTTTCCACAGTGGACATTCGCAATTAATAATAGCTGTAT 305
81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
306 ATAGCATCTCTGACTTTTCTTACACTCTTGAAGGAATTAATTCACCTTAGCAACT 365
261 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuProMet 120
366 TCCCATCAACAAATTTTATTAATAATTCATCTGCTGATCAACAAGCTTGGCAATG 425
121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaAlaIleValGln 140
426 GTTTCATCACTCTCTTGGCATTTGGTTTACCTGCAAGTGTGATAGCAATTTGTCAA 485
141 LeuHisAsnGlyThrLysTyrLysLysPheProHisIleTrpLeuAspLysTrpMetLeuThr 160
486 CTTCAATATGGAACCAAGTATTAAGATTTTCCACATTTGATGAAGTGAAGTATTAACA 545
161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaIleTyrSerLeu 180
546 AGAAGAGATTTGGGCTTCTCAAGTTCTTTTGTGCTGATGCAATTTATATAGCTG 605


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RESULT 3
US-09-685-166A-878
; Sequence 878, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-685-166A-878

Alignment Scores:
Pred. No.: 1,09e-202          Length: 1195
Score: 1790.00                Matches: 339
Percent Similarity: 100.008    Conservative: 0
Best Local Similarity: 100.008  Mismatches: 0

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Query	Match:	100.0%	Indels:	0
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QY	21 AsnLeuGluGlnAspAspTrpLeuHsLysAspThrGlyGlnThrSerMetLeuLysArg	40		
Db	126 AATTGGAAGAAAGACATTAATTTGGCATTAAGGACACGGGAGAGACACGATGCTAAAGA	189		
QY	41 ProValLeuLeuHsIleuHsIsglntArAlaHsAlaAspGlnPheAspCysProSerGlu	60		
Db	186 CCGTGTCTTTGCATTTGCACCAAGACCCCAAGCTGATGAATTTGACCTGCCCTCAGAA	245		
QY	61 LeuGlnHsIsthGlnGlnLeuPheProGlnTrpHsIleuProIleLysIleAlaIle	80		
Db	246 CTTGACACACACAGAGAACTTTCCACAGTGGCACTTGCCATTAATAATAGCTCATTT	305		
QY	81 IleAlaSerLeuThrPheLeuTrpThrLeuLeuArgGluValIleHsProLeuAlaThr	100		
Db	306 ATAGCATCTCTGACTTTTCTTAACCTCTTGAAGGAAAGTAATTCACCTTAGCAACT	365		
QY	101 SerHsIsglGlnGlnIsthPheTrpLysIleProIleLeuValIleAsnLysValLeuPromet	120		
Db	366 TCCCATCAACATATTTTATATAATTCCAATCTGTGATCAACAAGCTTGGCCAATG	425		
QY	121 ValSerIleThrLeuLeuAlaLeuValTrpLeuProGlyValIleAlaIleAlaIleValGln	140		
Db	426 GTTTCATCATCACTCTCTGGCATTTGGTTTACCTGACGGGTGTGATGACACATTTGTCCA	485		
QY	141 LeuHsAsnGlnThrLysPheTrpLysPheProHsIsthPheLysAspLysTrpMetLeuThr	160		
Db	486 CTTCAATTAATGGAACCAAGATTAAGAAGTTTCCACATTTGGTTGGAATGAAGGATGTTAACA	545		
QY	161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHsAlaIleLysSerLeu	180		
Db	546 AGAAAGCAGTTTGGGCTTCTGAGTTCTTTTGGCTGACAGTCAACGCAATTAATGCTCG	605		
QY	181 SerTrpProMetLysArgSerTrpArgTrpLysLeuLeuAsnTrpAlaTrpGlnGlnVal	200		
Db	606 TCTTAACCAATGAGGCGATCTCTACAGATACAAGTTGCTAACTGGGCAATCAACAGCTC	665		
QY	201 GlnGlnAsnLysGlnAspAlaTrpIleGlnHsIshAspValTrpArgMetGlnIleTrpVal	220		
Db	666 CAACAAATTAAGAAGATGCTGGAATGAGATATGTTTGAGATGAGACATTAATATGTG	725		
QY	221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValIsthSerIleProSer	240		
Db	726 TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTGGCTGTGACATCTTAATTCACAT	785		
QY	241 ValSerAspSerLeuThrTrpArgGlnPheHsIsthTrpIleGlnSerLysLeuGlyIleVal	260		
Db	786 GTGAGTCACTCTTGACATGAGAGAAATTCACATATTCAGACCAAGCTGAGAAATGTT	845		
QY	261 SerLeuLeuLeuGlyTrpIleHsAlaIleLeuIlePheAlaTrpAsnLysTrpIleAspIle	280		
Db	846 TCCCTTCTACTGGGCAACATACAGCATGTGATTTTTCCTGGAAATGAAGTGAATGATA	905		
QY	281 LysGlnPheValTrpTrpTrpProTrpHsMetIleAlaValPheLeuProIleVal	300		
Db	906 AAACAAATTTGTATAGTATACACCTCCAACTTTTATGATAGCTGTTTCTTCCAAATGTT	965		
QY	301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle	320		
Db	966 GTCTGTGATTTTAAAGCATACATATTCCTGCACTGTGAGGAAGAAATGATGAAATTT	1025		
QY	321 ArgHsIsglTrpGlnAspValThrLysIleAsnLysThrGlnLysCysSerGlnLeu	339		
Db	1026 AGACATAGTTGGGAAGACGTCACCAAAATTAACAACATGAGATATGTTTCCAGTTG	1082		

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RESULT 4
US-09-679-426-878
; Sequence 878, Application US/09679426
; Patient No. 675915
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqun
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C20
; CURRENT APPLICATION NUMBER: US/09/679,426
; CURRENT FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 895
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-679-426-878

Alignment Scores:
Pred. No.: 1.09e-202 Length: 1195
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conserved: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0

US-10-750-262-2 (1-339) x US-09-679-426-878 (1-1195)

QY 1 MetGluSerArgIysAspIleThrAsnGlnGluLeuTrpLysMetLysProArgArg 20
DB 66 ATGGAAGCGAAGAAAGCATCACAACCAAGAGAACTTTGGAAAATGAAAGCTTAAAGAGA 125
QY 21 AsnLeuGlnGluAspArgTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 126 AATTAGAAAGAGCGATTATTTCATTAAGAGACAGGAGAGACACACATGCTAAAAAGA 185
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 186 CCTGTGCTTTGGCATTTGGACCAAAACAGCCCATGCTGTAATTTGACTGCTCCCTTCAGAA 245
QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProIleLysIleAlaAlaIle 80
DB 246 CTTAGACACACAGAACTCTTTCCACAGTGGCACTTGGCAATTAATAATGCGCTATT 305
QY 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgIleValIleHisProLeuAlaThr 100
DB 306 ATAGCATCTGACTTTCTTTACACTCTTCTGAGGAGAAATTAATCACCCCTTTAGCAACT 365
QY 101 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuProMet 120
DB 366 TCCCATCAACATATATTTTAAATTCCTCAATCCGTCATCAACAAAGTCTTGGCAATG 425
QY 121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaAlaIleValGln 140
DB 426 GTTTCATCACTCTCTTGGCATTTGGTTTACTGCTGCAAGGTGATAGCAATTTGCTCAA 485
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QY 141 LeuHisAsnGlnTyrThrLysLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
DB 486 CTTCATATATGAAACCAAGTATAGAAAGTTTCCACTTGGTGGATAGTGAATGTTTAAACA 545
QY 161 ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaAlaIleTyrSerLeu 180
DB 546 AGAAGAGATTTGGGCTTCTCAAGTTCTTTTGGCTGATGCAATGCAATTTATAGCTG 605
QY 181 SerTyrProMetArgArgSerTyrArgTyrLysLeuLeuAsnTrpAlaTyrGlnGlnVal 200
DB 606 TCTTACCAATAGAGGCATCTCAAGATACAGATAGTGTAAACTGGGATATCAACAGAGTC 665
QY 201 GlnGlnAsnLysGluAspAlaTrpIleGlnHisAspValTyrArgMetGluIleTyrVal 220
DB 666 CAACAAAATAAAGAAATGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 725
QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValTrpSerIleProSer 240
DB 726 TCTCTGGAAATTTGGGATTTGGCAATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 785
QY 241 ValSerAspSerLeuThrTrpArgGluPheHisTyrIleGlnSerLysLeuGlyIleVal 260
DB 786 GTGATGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTTGAATGCTT 845
QY 261 SerLeuLeuLeuGlyThrIleHisAlaLeuLeuPheAlaTrpAsnLysTrpIleAspIle 280
DB 846 TCCCTTCACTGGGCAATACAGCATGATTTTGGCTGGAATTAAGTGAATGATGATGATGAT 905
QY 281 LysGlnPheValIleTyrThrProProThrPheMetIleAlaValPheLeuProIleVal 300
DB 906 AAACAAATTTGATGATATACACTTCCCACTTTATAGATAGCTGTTCTTCCCAATTTGTT 965
QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysLysIleLeuLysIle 320
DB 966 GTCTGATATTTAAAGATACATATTCTGCGCATCTGAGGAAAGATATGCTTCAAGAT 1025
QY 321 ArgHisGlyTyrGluAspValThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
DB 1026 AGACATGCTTTGGAGAGACGTCACAAAATTAACAAATGATATGTTCCAGATTG 1082

RESULT 5
US-09-759-143-878
; Sequence 878, Application US/09759143
; Patient No. 6800746
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqun
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-09-750-143-878

Alignment Scores:

Pred. No.:	1,096-202	Length:	1195
Score:	1790.00	Matches:	339
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	3	Gaps:	0

US-10-750-262-2 (1-339) x US-09-750-143-878 (1-1195)

QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProArgArg 20
DB 66 ATGGAAGAGAGAAAAGACATCAACAAAGAGAACTTTGGAAAATGAAAGCTTAGACA 125
QY 21 AsnLeuGlnLysAspTrpLeuHisLysAspTrpGluThrSerMetLeuLysArg 40
DB 126 AATTGAGAGAGAGATTTATTTGATTAAGACACGGGAGAGACAGCATGCTTAAGAAA 185
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 186 CTTGCTCTTGGCATTTGCACCAACACCCCTGATGAAATTTGACTGCCCTTCAGAA 245
QY 61 LeuGlnHisThrGlnLysLeuPheProGlnTrpHisLeuProLysIleAlaAlaIle 80
DB 246 CTTGAGACACACAGAACTCTTCCACAGTGGCACTTGCCTTAATAATAGCTGCTAAT 305
QY 81 IleAlaSerLeuThrPheLeuTrpLeuLeuArgLysIleHisProLeuAlaThr 100
DB 306 ATAGCATCTGACATTTCTTTACACTCTTCCAGGAGAAATTCACCTTACCACT 365
QY 101 SerHisGlnGlnTrpPheTrpLysIleProLysLeuValIleAsnLysValLeuProMet 120
DB 366 TCCCATCAACAAATTTTATTAATTCATCCCTGTCATCAACAAAGCTTCCAGATG 425
QY 121 ValSerIleThrLeuLeuAlaLeuValTrpLeuProGluValIleAlaAlaIleValGln 140
DB 426 GTTTCATCACTCTCTTGGCATTTGCTTACCTGCCAGGTGATGAGACAGCAATGTCGA 485
QY 141 LeuHisAsnGlnTrpLysTrpLysLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
DB 486 CTTCATATATGAGCAAGATATTAAGAGTTTCCACATTTGGTGGATTAAGTGAATTTAACA 545
QY 161 ArgLysGlnPheGlyLeuLeuSerPhePheHisAlaValLeuHisAlaIleTrpSerLeu 180
DB 546 AGAAGAGAGTTGGGCTTCTCAAGTTCTTTTTCCTGATCGATGCAATTTATATAGCTCG 605
QY 181 SerTrpPheMetArgAspSerTrpArgTrpLysLeuLeuAsnTrpAlaTrpGlnGlnVal 200
DB 606 TCTTACCCATGAGGCGATCTTACAGATCAAGTTGCTAACTGGGCAATATCAACAGGTC 665
QY 201 GlnGlnAsnLysGluAspAlaTrpIleGlnHisAspValTrpArgMetGluIleTrpVal 220
DB 666 CAACAAATTAAGAGATGCTCGATTTGACATGATGTTTGGAGAAATGGAGATTTATGTC 725
QY 221 SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValTrpSerIleProSer 240
DB 726 TCTCTGGGAATTTGGGATTTGGCAATACCTGCTGTTGCTGATCATTTATTCATCT 785
QY 241 ValSerAspSerLeuThrTrpArgGluPheHisTrpIleGlnSerLysLeuGlyIleVal 260
DB 786 GTGAGAGCACTTTGACATGAGAGATTTCACTAATTCAGAGCAAGCTTAGAATTTGTT 845
QY 261 SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
DB 846 TCCCTCTTCTAGTGGCAATATACAGCATTTTGGCCGGAATAGTGGATATGATATA 905
QY 281 LysGlnPheValTrpTrpProGlnTrpPheMetIleAlaValPheLeuProLysVal 300
DB 906 AACAATTTGTATGATACACCTTCAACCTTTATATGATAGCTGTTTCCCTCAATGTTT 965
QY 301 ValSerIleThrLeuLeuAlaLeuValTrpLeuProGlyValIleAlaAlaIleValGln 320

DB 966 GTTCTGATATTTAAAGACATTAATTCCTGCAATCTTGAGAGAGAGATTAAGAT 1025
QY 321 ArgHisGlyTrpGluAspValThrLysIleAsnLysThrGluIleCysSerGlnLeu 339
DB 1026 AGACATGTTGGAGAGAGCTCAACAAATTAACAAACCTGAGATATTTCCAGTTG 1082

RESULT 6

US-10-010-667A-1
Sequence 1, Application US/10010667A
Patent No. 6887975

GENERAL INFORMATION:

APPLICANT: Afar, Daniel
APPLICANT: Hubert, Rene S.
APPLICANT: Leong, Kahan
APPLICANT: Raitano, Arthur B.
APPLICANT: Saffran, Douglas C.
APPLICANT: Mitchell, Steve Chappell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 511582001601
CURRENT APPLICATION NUMBER: US/10/010,667A
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo Sapiens
US-10-010-667A-1

Alignment Scores:

Pred. No.:	1,096-202	Length:	1195
Score:	1790.00	Matches:	339
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	3	Gaps:	0

US-10-750-262-2 (1-339) x US-10-010-667A-1 (1-1195)

QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProArgArg 20
DB 66 ATGGAAGAGAGAAAAGACATCAACAAAGAGAACTTTGAAAATGAAAGCTTAGAGA 125
QY 21 AsnLeuGlnLysAspTrpLeuHisLysAspTrpGluThrSerMetLeuLysArg 40
DB 126 AATTGAGAGAGAGATTTATTTGATTAAGACACGGGAGAGACAGCATGCTTAAGAAA 185
QY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 186 CTTGCTCTTGGCATTTGCACCAACACCCCTGATGAAATTTGACTGCCCTTCAGAA 245
QY 61 LeuGlnHisThrGlnLysLeuPheProGlnTrpHisLeuProLysIleAlaAlaIle 80
DB 246 CTTGAGACACACAGAACTCTTCCACAGTGGCACTTGCATTAATAATAGCTGCTAAT 305
QY 81 IleAlaSerLeuThrPheLeuTrpLeuLeuArgLysIleHisProLeuAlaThr 100
DB 306 ATGCACTCTGCTTTCTTTACACTCTTCCAGGAGAGTAAATTCACCTTAGCAACT 365
QY 101 SerHisGlnGlnTrpPheTrpLysIleProLysLeuValIleAsnLysValLeuProMet 120
DB 366 TCCCATCAACATATTTATTAATAATTCATCCCTGTCATCAACAAAGCTTCCAGATG 425
QY 121 ValSerIleThrLeuLeuAlaLeuValTrpLeuProGlyValIleAlaAlaIleValGln 140

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Db 426 GTTCCATCACTCTCTGGCATGTGATTACCTGACGAGTGATAGACAAATTGTCGA 485
Qy 141 LeuH1saenglyThrlYsTylYslysbPheProH1stRpleuAspLystrMetLeuThr 160
Db 486 CTTCAATATGGAACCAAGATATAGAAAGTTTCCACATGTGGATGAAGATGATTAA 545
Qy 161 ArglysglnpHeGlyLeuLeuSerPhePheAlaValLeuH1sa1leYrSerLeu 180
Db 546 AGAAAGCAGTTGGGCTCTCAAGTTCTTTTGGCTGTAAGTCAATTAATTAAGTCTG 605
Qy 181 SerTyPromeCArgArgSerTyArgTyLyLeuLeuAsnTrpAlaTyGlnGlnVal 200
Db 606 TCTTACCCCAATGAGGCGATCTTACAGATCAAGATTGCTAACTGGGCAATACAGAGTC 665
Qy 201 GlnGlnAsnLygluAspAlaTrpIleGlnH1saAspValTrpArgMetGluIleTyVal 220
Db 666 CAACAAATTAAGAAAGATGCTCGATGATGAGCATGATGATGAGAAATTAATG 725
Qy 221 SerLeuGlyIleValGlyLeuH1sa1leLeuAlaLeuLeuAlaValThrSerIleProSer 240
Db 726 TCTCTGGGAATGTGGGATTTGGCAATACCTGCTCTGCTGGCTGTGACATTAATTCATCT 785
Qy 241 ValSerAspSerLeuThrTrpArgGluPheH1sTyrlIleGlnSerLyLeuGlyIleVal 260
Db 786 GTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGCAATGTT 845
Qy 261 SerLeuLeuLeuGlyThrlIleH1sa1leuIlePheAlaTrpAsnLystrIleAspIle 280
Db 846 TCCCTTCTACTGGGCAACATACCGCATGATTTTGGCTGGCAATAAGTGATAGTAA 905
Qy 281 LySGlnPheValTrpTyThrProProThrPheMetIleAlaValPheLeuProIleVal 300
Db 906 AAMCAATTTGTATGTATACCTCCACTTTATATAGCTGTTTCCCTTCCAAATGTT 965
Qy 301 ValLeuIlePheLySerIleLeuPheLeuProCysLeuArgLySlyIleLeuValIle 320
Db 966 GTCCTGATATTTAAAGCATACATATCTCTGCCATGCTTGAGAAAGAAATCAAGAAATT 1025
Qy 321 ArgH1sGlyTrpGluAspValThrLySlyIleAsnLystrGluIleCysSerGlnLeu 339
Db 1026 AGACATGTTGGGAAAGCTCACCAAAATTAACAAATTAATGATGTTCCAGTTG 1082

RESULT 7
US-10-012-896-878
; Sequence 878, Application US/10012896
; Patent No. 6943236
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuguu
; APPLICANT: Kalow, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Patrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassole, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Wantanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
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; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012.896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-012-896-878

Alignment Scores:
Pred. No.: 1,09e-202 Length: 1195
Score: 1790.00 Matches: 339
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0

US-10-750-262-2 (1-339) x US-10-012-896-878 (1-1195)

Qy 1 MetGluSerArgLyAspIleThrAsnGlnGluLeuTrpLyMetLeuProArgArg 20
Db 66 ATGAAAGCAGAAAGACATCAACAAGAAAGAACTTTGGAATGAAAGCTAGAGAA 125
Qy 21 AsnLeuGluGluAspTyrlLeuH1slysbPthrGlyGluThrSerMetLeuysArg 40
Db 126 AATTTAAGAAAGACATTAATTTGATTAAGACAGGAGAACCGCATGCTTAAGAA 185
Qy 41 ProValLeuLeuH1sleuH1sglnThrAlaH1saAspGluPheAspCysProSerGlu 60
Db 186 CCTGCTTTTGATTTGACCCAAACGCCCATGCGATGAATTTGATGACCTTCCAGAA 245
Qy 61 LeuGlnH1sThrGlnGluLeuPheProGlnTrpH1sleuProIleLyIleAlaIle 80
Db 246 CTTGACACACACAGAACTTTTCCACAGTGGCACTTCCCAATTAATACCTGCTATT 305
Qy 81 IleAlaSerLeuThrPheLeuTyThrIleLeuAsnArgGluValIleH1sProLeuAlaThr 100
Db 306 ATAGCATCTCTGACTTTTCTTAACACTCTTGGAGGAAGTAAATTAACCTTTAGCACT 365
Qy 101 SerH1sGlnGlyTrpPheTyrlYsIleProIleLeuValIleAsnLystrValLeuPromet 120
Db 366 TCCCATCAACATATTTTATTAATTTCCATCTGTCATCAACAAGCTTGCCAAATG 425
Qy 121 ValSerIleThrLeuLeuAlaLeuValTyrlLeuProGlyValIleAlaAlaIleValGln 140
Db 426 GTTTCATCACTCTCTGGCATGTGTTACCTGCCAGTGTGATGACAGCAATGTCGA 485
Qy 141 LeuH1saenglyThrlYsTylYslysbPheProH1stRpleuAspLystrMetLeuThr 160
Db 486 CTTCAATATGGAACCAAGATATAGAAAGTTTCCACATGTGGATGAAGATGATTAA 545
Qy 161 ArglysglnpHeGlyLeuLeuSerPhePheAlaValLeuH1sa1leYrSerLeu 180
Db 546 AGAAAGCAGTTGGGCTCTCAAGTTCTTTTGGCTGTAAGTCAATTAATTAAGTCTG 605
Qy 181 SerTyPromeCArgArgSerTyArgTyLyLeuLeuAsnTrpAlaTyGlnGlnVal 200
Db 606 TCTTACCCCAATGAGGCGATCTTACAGATCAAGATTGCTAACTGGGCAATACAGAGTC 665
Qy 201 GlnGlnAsnLygluAspAlaTrpIleGlnH1saAspValTrpArgMetGluIleTyVal 220
Db 666 CAACAAATTAAGAAAGATGCTCGATGATGAGCATGATGATGAGAAATTAATG 725
Qy 221 SerLeuGlyIleValGlyLeuH1sa1leLeuAlaLeuLeuAlaValThrSerIleProSer 240
Db 726 TCTCTGGGAATGTGGGATTTGGCAATACCTGCTCTGCTGGCTGTGACATTAATTCATCT 785
Qy 241 ValSerAspSerLeuThrTrpArgGluPheH1sTyrlIleGlnSerLyLeuGlyIleVal 260
Db 786 GTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGACAAAGCTAGCAATGTT 845
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Db      333  TCCCATCAACAAATATTTTATTAATAAATTCCAATCCTGGTCATCAACAACAAAGCTTGCCAAAT 392
Qy      121  ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaIleValGln 140
Db      393  GTTTCATCACTCTCTTGGAATGGTTTACTCTCCAGTGTGATAGACAAATGTGCCAA 452
Qy      141  LeuHisAsnGlyThrLysTyrLysLysPheProHisGtrLeuAspLysTrpMetLeuThr 160
Db      453  CTTCCATATATGAACCAAGTATTAAGAAATTTCCCATTTGGCTTGATTAAGGAGATTTAA 512
Qy      161  ArgLysGlnPheGlyLeuLeuSerPhePheAlaValLeuHisAlaIleTyrSerLeu 180
Db      513  AGAAGACAGATTGGGCTTCTCAAGTTCTTTTGGTGTACTGATGCATTAATTAAGTCTG 572
Qy      181  SerTyrProMetArgProSerTyrArgTyrLysLeuLeuAsnTrpAlaTyrGlnGlnVal 200
Db      573  TCTTACCCCAATGAGGCGATCTCAACAGATCAAGTTGCTTAACTGGGCATATCAACAGCTC 632
Qy      201  GlnGlnAsnLysGlnAspAlaTrpIleGlnHisAspValTrpArgMetGlnIleTyrVal 220
Db      633  CAACAAATTAAGAAATATCCTCGATTTGAGCATGATGTTTGGAGAAATGAGATTTATGTG 692
Qy      221  SerLeuGlyIleValGlyLeuAlaIleLeuAlaLeuLeuAlaValThrSerIleProser 240
Db      693  TCTCTTGGAATGTGGGATTTGGCAATACAGCTGCTGTGTGGTGTGACATCTATTCATCT 752
Qy      241  ValSerAspSerLeuThrTrpArgGlnPheHisTyrIleGlnSerLysLeuGlyIleVal 260
Db      753  GTGAGTACTCTTTGACATGAGAGAAATTTCACTATTTCAAGACAGATGAGAAATTTGTT 812
Qy      261  SerLeuLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
Db      813  TTCCTTTACTACTGGCAATACACCATTTGATTTTGGCTGGATTAAGTGAATATATATA 872
Qy      281  LysGlnPheValTyrTyrThrProThrPheMetIleAlaValPheLeuProIleVal 300
Db      873  AAACAAATTTGATGTATATACACTCCCACTTTATGATAGCGTTTCTTCCATTTCTT 932
Qy      301  ValLeuIlePheLysSerIleLeuPheLeuProCysLeuAlaGlyLysIleLeuLysIle 320
Db      933  GTCCGATATATTTAAAGACTACTATCTCTGCGACGCTTGAGAGAAAGATACTGAAGATT 992
Qy      321  ArgHisGlyTrpGlnAspValThrLysIleAsnLysThrGlnIleCysSerGlnLeu 339
Db      993  AGACATGTTGGGAAGACGTCAACCAAAATTAAACAAACTGAGATATGTTCCCAAGTTG 1049

RESULT 9
US-09-323-873A-6
; Sequence 6, Application US/09323873A
; Patent No. 6329503
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Kane S. Leong
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Steve Chappell Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 129.16US02
; CURRENT APPLICATION NUMBER: US/09/323,873A
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 3627
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-323-873A-6

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Alignment Scores:
Pred. No.: 1,17e-150 Length: 3627
Score: 1358.50 Matches: 338
Percent Similarity: 29.68% Conservative: 0
Best Local Similarity: 29.68% Mismatches: 1
Query Match: 75.89% Indels: 801
DB: 3 Gaps: 1

US-10-750-262-2 (1-339) x US-09-323-873A-6 (1-3627)

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OY 61 LeuGIngIeThGIngIuLeuPheProGIngTrpHisLeuProIleLysIleAlaIle 80
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OY 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
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OY 181 SerTyrPrometArgAspSerTyrArgTyrLysLeuLeuAsnTrpAlaTyrGIngIuVal 200
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 QY 253 ----- 253
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 US-09-455-486-4
 / Sequence 4, Application US/09455486
 / Patent No. 6833438
 / GENERAL INFORMATION:
 / APPLICANT: Daniel E. Afar
 / APPLICANT: Rene S. Hubert
 / APPLICANT: Arthur B. Raitano
 / APPLICANT: Douglas C. Saffran
 / APPLICANT: Stephen C. Mitchell
 / TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
 / TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
 / FILE REFERENCE: 129.17-US-11
 / CURRENT FILING DATE: US/09/455,486
 / PRIOR APPLICATION NUMBER: 1999-12-06
 / PRIOR FILING DATE: 1999-06-01
 / NUMBER OF SEQ ID NOS: 34
 / SOFTWARE: FastSeq for Windows Version 4.0
 / SEQ ID NO 4
 / LENGTH: 3627
 / TYPE: DNA
 / ORGANISM: Homo sapiens
 / US-09-455-486-4
 Alignment Scores:
 Pred. No.: 1,17e-150 Length: 3627
 Score: 1358.50 Matches: 338
 Percent Similarity: 29.68% Conservative: 0
 Best Local Similarity: 29.68% Mismatches: 1
 Query Match: 75.89% Indels: 801
 DB: 3 Gaps: 1
 US-10-750-262-2 (1-339) x US-09-455-486-4 (1-3627)
 QY 1 MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpIysMetLysProArgArg 20
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 QY 21 AsnLeuGlnGluAspAspTyrIleuHisLysAspThrGlyGluThrSerMetLeuIysArg 40
 Db 156 AATTAGAAAGAGACATTAATTTGCAATAGGACACGCGAGAGACCGACATGCTTAAGAA 215
 QY 41 ProValLeuLeuHisLeuHisGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
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 QY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProIleLysIleAlaIle 80
 Db 276 CTTTCAGACACACAGAACTTTTCCACAGTGCATTCGCCAATTAATTAAGTCTGCTATT 335
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QY 141 LeuHsaGlnGlyThrLysTyrLysLysPheProHsIleTyrLeuAspLysTyrMetLeuThr 160
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QY 241 ValSerAspSerLeuThrTyrArgGluPheHsTyrIle----- 253
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QY 253 ----- 253
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QY 253 ----- 253
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: APPLICANT: Saffran, Douglas C.
: APPLICANT: Mitchell, Steve Chappelle
: TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
: TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
: FILE REFERENCE: 511582001601
: CURRENT APPLICATION NUMBER: US/10/010,667A
: CURRENT FILING DATE: 2001-12-06
: PRIOR APPLICATION NUMBER: 09/322,873
: PRIOR FILING DATE: 1999-06-01
: PRIOR APPLICATION NUMBER: 60/087,520
: PRIOR FILING DATE: 1998-06-01
: PRIOR APPLICATION NUMBER: 60/091,183
: PRIOR FILING DATE: 1998-06-30
: NUMBER OF SEQ. ID NOS: 32
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO: 6
: LENGTH: 3627
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-010-667A-6

Alignment Scores:
Pred. No.: 1,17e-150 Length: 3627
Score: 1358.50 Matches: 338
Percent Similarity: 29.68% Conservative: 0
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Query Match: 75.89% Indels: 801
DB: Gaps: 1

US-10-750-262-2 (1-339) x US-10-010-667A-6 (1-3627)

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QY 21 AsnLeuGluGluIAspAspTyrLeuHisLysAspThrGluIuhTrsMetLeuLysArg 40
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QY 41 ProValLeuLeuHisLeuHisGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB CCGTGGCTTTTCATTTGACCAACAAACAGCCCACTGCGATGAATTTGACGCTTCAGAA 275
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QY 101 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuProMet 120
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QY 253 ----- 253
 Db 2915 AATTAGACAAATATACAGAGACAAAGCAGAAATAATATCATAGGGATGAC 2974
 QY 253 ----- 253
 Db 2975 AAATGTGAGAGAGATGACAAAGTTTGTATCAGCTGCTTCAAGAAAGCTGTGA 3034
 QY 253 ----- 253
 Db 3035 ATTTGTTCACTTACAGAGCTTGTGAGACAGAAATTAACCCAAAGTAGGTGAGAGAT 3094
 QY 253 ----- 253
 Db 3095 AGCAAAAGAGAGAGAGATGATGATGACATTTGTGAGAAATGTGATGAGAAACAT 3154
 QY 253 ----- 253
 Db 3155 CATGATAAAGAGATTTCCAGAGACAGACATATCCAGATGATGATGAGATTAAC 3214
 QY 254 ----- 254
 Db 3215 CTTATTTGAAACATCTTACCAATTTTGTCTTTTGTGAGAGAGAGCTGAGAAATTTGT 3274
 QY 261 SerLeuLeuGlyThrIleHisAlaLeuIlePheAlaTrpAsnLysTrpIleAspIle 280
 Db 3275 TCCCTTCACTGGGACAAATACACCATTTGCTGGAATAGTGATGATGATATA 3334
 QY 261 LysGlnPheValTrpTrpThrProThrPheMetIleAlaValPheLeuProIleVal 3300
 Db 3335 AAACAATTTGATGATATACACCTCACTTTATGATAGCTTTTCTTCCATTTGT 3394
 QY 301 ValLeuIlePheLysSerIleLeuPheLeuProCysLeuArgLysIleLeuLysIle 3320
 Db 3395 GTCTGATATTTAAAGCATCTATTTCTGCGATGCTGAGAGAAAGATCTGAAAGAT 3454
 QY 321 ArgHisGlyTrpGluAspValThrLysIleAsnLysTrpGluIleCysSerGlnLeu 339
 Db 3455 AGACATGGTTGGAGAGAGCTGACCAAAATTAACAAATGAGATATGTTCCAGTTG 3511

RESULT 12
 US-09-949-016-14428
 ; Sequence 14428, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE REFERENCE: CLO01307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; PRIOR FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ. ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 14428
 ; LENGTH: 9073
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-14428

Alignment Scores:
 Pred. No.: 6,24e-116
 Score: 1071.50
 Percent Similarity: 23.59%
 Best Local Similarity: 23.59%
 Query Match: 59.86%
 DB: 3
 Length: 9073
 Matches: 309
 Conservative: 0
 Mismatches: 2
 Indels: 1000
 Gaps: 2

US-10-750-262-2 (1-339) x US-09-949-016-14428 (1-9073)
 QY 29 HisLysAspThrGlyGluThrSerMetLeuLysArgProValIleLeuHisIleGln 48
 Db 3049 CATTAAGGACACGGGAGAGACCGAGCATGCTAAATAAGCTGTCTTTGATTTGGACGAA 3108
 QY 49 ThrAlaHisAlaAspGluPheAspCysProSerGluLeuGlnHisThrGlnIlePhe 68
 Db 3109 ACAGCCCATGCTGATGAAATTTGATGACCTGCTCAGAACTTCAGACACAGGAACTTT 3168
 QY 69 ProGlnTrpHisLeuProIleLysIleAlaIleIleAlaSerLeuThrPheLeuTrp 88
 Db 3169 CCACAGTGCATTTGCCAATTAATAATAGCTGATTAATAGCATCTCTTAATTTTCTTAC 3228
 QY 89 ThrLeuLeuArgLysValIleHisProLeuAlaThrSerHisGlnGlnIleTrpPheTrp 108
 Db 3229 ACTCTTCTGAGGAGAGATTAATCACTTTAGCACTTCCATCAACATATTTTATATA 3288
 QY 109 IleProIleLeuValIleAsnLysValLeuProMetValSerIleThrLeuLeuAlaLeu 128
 Db 3289 ATTCCAATCTGGCTCATCAACAAAGCTTGGCAATGTTCCATCATCACTCTTGGCATTTG 3348
 QY 129 ValTrpLeuProGlyValIleAlaAlaIleValGlnLeuHisAsnGlyThrLysTrpLys 148
 Db 3349 GTTTACCTGCCAGGTGTGATAGCAGCAATTTGTCCAACTTCAATATGAAACCAAGTATAG 3408
 QY 149 LysPheProHisTrpLeuAspLysTrpMetLeuThrArgLysGlnPheGlyLeuLeuSer 168
 Db 3409 AAGTTTCCACATTTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3468
 QY 169 PhePhePheAlaValIleHisAlaIleTrpSerLeuSerTrpProMetArgArgSerTrp 188
 Db 3469 TTTCTTTTGTCTGATAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3528
 QY 189 ArgTrpLysLeuLeuAsnTrpAlaTrpGlnGlnAla 200
 Db 3529 AGATACAGTTGCTTAACCTGGCATATCAACAGGT -AAGATGACAGTTTGACACTGTTA 3587
 QY 200 ----- 200
 Db 3588 CTAAATAAAAGTCAAGTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA 3647
 QY 200 ----- 200
 Db 3648 CAACCTGTTGAAACCTGCTGTGTAAGAAAGTCACTCACTCACTCACTCACTCACTCACT 3707
 QY 200 ----- 200
 Db 3708 CACTAGGCTTGTGTTGCTGCTGCTGTTTATATGAGAAATGTTTGTAGCTGAAATAA 3767
 QY 200 ----- 200
 Db 3768 GTTACAACCTTACCAACATTAAGAAACATTTTGTTCATGACGAGGCCATATTTCAAACTT 3827
 QY 200 ----- 200
 Db 3828 CTACACCTCAGACAGATTACTTTTAATATGTTGTTCTTCTGTTTACCAATATG 3887
 QY 200 ----- 200
 Db 3888 CATGACATTACAGTTCTATTCAGATTAACATCAATTAATATTAGAAATTAATATAGAT 3947
 QY 200 ----- 200
 Db 3948 TATGAAAGTGTTCATTTCAAGAAAAAGTATGATGCTCTATGTCACTTGTCTTAGAGA 4007
 QY 200 ----- 200
 Db 4008 ATGCAAAAAAAGAAAGAAAGTATTAATTTGTGAGACCTGTTATCAGGCTTCAT 4067
 QY 200 ----- 200
 Db 4068 AGTAGCAGAGGAGAGAGTGTGAAAGAGATTCAATTCAGAAATTAATCTGTTTGTGCA 4127

OY	201	-----	gInGInaShnLyGInuSpAlaTrPile	209
Db	4128	TTTCTTCTTCTTATTATTACCTCTGATAGTCCAAACAAATTAAGAGATGCTGGATT		4187
OY	210	GluihIaSpVal1TrpArgMetGlu1IeYrValSerLeuGly1IeValGlyLeuAlaIle		229
Db	4188	GAGCATATATGTTGGAGAAAGGAGATTATATGTCTCTGAGAAATGTGGAAATGGCAAT		4247
OY	230	LeuAlaLeuLeuAlaVal1ThrSer1IeProSerValSerAspSerLeuThr1TrpArgGlu		249
Db	4248	CTGGCTCTGTGGCTGTGACATCTATTCCATCTGTAGAGACCTTTTGACATGAGAGAA		4307
OY	250	PhehIaTrPile	-----	253
Db	4308	TTTCACATATATCAGTAAATATATATAATAATACCCTAAGAGTAAATCTTCTTTTGG		4367
OY	253	-----	-----	253
Db	4368	TGTTATGATATAGAAATATGTGACTTACCCTAATAAAATAACAAATGTTTTCACA		4427
OY	253	-----	-----	253
Db	4428	GCAAGATCTTATACTTGTTCATTAATATATATGTCTCTGTGTGTTTCCCTATTGCT		4487
OY	253	-----	-----	253
Db	4488	TCTAATTAGACAAGATGTTTCTAGACATAATAAAGCATTAAATATTCTTGTGTTT		4547
OY	253	-----	-----	253
Db	4548	TTTTTTTGTGTTGTTGTTTTTTGTTTGTGTTTGTGTTTTTGGAGTAGAAGTCTGCTC		4607
OY	253	-----	-----	253
Db	4608	TGTTGCCATGTGGAGTAGACATGCGACATCTGCGTCACTGCACTGGCCTCCTGG		4667
OY	253	-----	-----	253
Db	4668	GTTACGGCGATTCTCTGCTCAGCCTCTAGTAGCTGGATTACAGGACCACTACACC		4727
OY	253	-----	-----	253
Db	4728	ATGTCACGATATTTTTGATTTTTATAGTAGACAGGGTTTTCCATGTTGGCCAGGCTG		4787
OY	253	-----	-----	253
Db	4788	GTTCTGATCTCTGCATCTCAATGATCGCCCACTGGCCTCCCAAAATGCTGGATGA		4847
OY	253	-----	-----	253
Db	4848	CAGTTGTAGCCACACACTCAGCCTGCTTTCTAATATTGAACCTGTTAGACAATT		4907
OY	253	-----	-----	253
Db	4908	TGCCACCACTAATATGTATTTTAGAATCAATATGATGTTTATTTCTTAAA		4967
OY	253	-----	-----	253
Db	4968	AAAAATATCTTTTACCTGTACCTGAATTTAGTATGCTTTATGTTAACAACATTAG		5027
OY	253	-----	-----	253
Db	5028	CACCTTCCAGAAACAAAACCTCTCTCTGAATAATATAGTTTTATCTACCAAGATA		5087
OY	253	-----	-----	253
Db	5088	TTCATGTCTCATTTCAAGGCTGTTTTCAGCTTACATTTATATTACTTACTACT		5147
OY	253	-----	-----	253
Db	5148	TGAAGTTCTAAADATTTCTTGTAATTTTAAACATATCTCAGANTTATGAGGTTTATCTT		5207

QY	253	-----	253
Db	5208	CTGTGTGTAGATTATTCATTAAGAAGTGATGTGCAGAAATCATCTGGGATCCTTGCT	5267
QY	253	-----	253
Db	5268	GACAAATTCAAAGACTAATTATTAATGATGTCATGAACAATGCCAATTACGTTATAG	5327
QY	253	-----	253
Db	5328	GTAGACATCTTTGGAAATTTCCCAAGGTCAGACATTCGCACTATCCCTTCTACATGTC	5387
QY	253	-----	253
Db	5388	CACACGTATCTCCAACTTTATTAGGATCTGATTAGTTGGAAAGTATGCTTCATC	5447
QY	253	-----	253
Db	5448	TGAATTAGTCCAGTGTGCTTAGAGTTGGTACAACTTCACAGAAATTTCTTAATTTTG	5507
QY	253	-----	253
Db	5508	TAGGTTACGCTGATTAACAAGCTGAGATTCTTTGGTCTCATTTAATAGCTTTCTTACAC	5567
QY	253	-----	253
Db	5568	ATTGCTCTGCTTTACACATATGATGACACGCTTTTAGACTTCATTAGGAATTTAG	5627
QY	253	-----	253
Db	5628	GACTGCATCTTGACAACTGAGCCTATTCTATATGTATGACAAATCTTAGCCATTAATAG	5687
QY	253	-----	253
Db	5688	TATACAAATACATTTGGTAAACTAATTTTCAACCATGACATGATTTTTCAGACTAGT	5747
QY	253	-----	253
Db	5748	AACTAGAAATGTTTCACTTAATAATCTGAGAACTGTTTACATCAAGTACTTGAGAGA	5807
QY	253	-----	253
Db	5808	TTCATATATGAAAACGCAACTAGACTATTGATTGATTATTCATCTGGAATTAGAATGCG	5867
QY	253	-----	253
Db	5868	CCGTGAATATGTGAGTTGATTTGTTCTGACAGGCTAATGACCATTTCCAGTAAAGTGA	5927
QY	253	-----	253
Db	5928	ATPAGAGTCAGAAATGCTAATAAAGAGTGTTCAGAACACGGTTGAGATTACATAGGT	5987
QY	253	-----	253
Db	5988	GAAACAATTTTAAAGCACTTTATTGTGATGACAAAGCATCCCAATGACAGCTGA	6047
QY	253	-----	253
Db	6048	AATGTTTCATCACATCTCGATCTCTATTTTGTGACAGACATTGAAAAATTTGTTCAT	6107
QY	253	-----	253
Db	6108	ATTATTTCCATGTTATCAGAAATTTGATTTTAAAAACAATAGGCCAAGTTCAATCACT	6167
QY	253	-----	253
Db	6168	TCATATTTCATTTTCAAAATCAGAGTGAATCACAATAGTCGCTTCACAACTGATAAAG	6227
QY	253	-----	253
Db	6228	ATCAGTAAGTCAAAATGTATTTTGTCTAATATCTCAATCTAATATTAAATTGAGAA	6287
QY	253	-----	253

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; ORGANISM: Homo sapien
US-09-439-313-342

Alignment Scores:
Pred. No.: 5,62e-98      Length: 592
Score: 905.00           Matches: 171
Percent Similarity: 99.42%      Conservative: 0
Best Local Similarity: 99.42%      Mismatches: 1
Query Match: 50.56%           Indels: 0
DB: 3                      Gaps: 0

US-10-750-262-2 (1-339) x US-09-439-313-342 (1-592)

QY      1  MetGluSerArgLysAspIleThrAsnGlnGluLeuTrpLysMetLysProAlaArg 20
Db      518 ATGAAAGCGAAGAGACATCACAAACCAAGAAACCTTTGGAAAAAGAGCTTAGAGA 45
QY      21  AsnLeuGlnLysAspArgLysMetLysAspThrGlyGluTrpSerMetLeuLysArg 40
Db      458 AATTAGAAAGAGACGATTATTTCGATTAAGACACGGGAGAGACACGACATCTTAAGAA 39
QY      41  ProValLeuLeuMetLysLeuHisGlnThrAlaHisAlaAspLysPheAspCysProSerGlu 60
Db      398 CCGTGTGTTTGGATTGGACCAACACGGCCCATGCTGATGAATTGACTGCCCTTCGAA 33
QY      61  LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLeuProLysLysIleAlaIle 80
Db      338 CTCACGACACACAGAACTCTTCCACAGTGGACCTGCAATTAAATAGCTGCTATT 27
QY      81  IleAlaSerLeuThrPheLeuTrpThrLeuLeuArgGluValIleHisProLeuAlaThr 100
Db      278 ATAGCATCTCTGACTTTTCTTTACACTCTTCTGAGGAAGTAATTACCTTAGCACT 21
QY      101 SerHisGlnGlnTrpPheTrpLysIleProIleLeuValIleAsnLysValLeuProMet 120
Db      218 TCCCAATCAACAATATTTTATTAATAATCCAACTCTGTCATCAACAAGCTTGCCAA 15
QY      121 ValSerIleThrLeuLeuAlaLeuValTrpLeuProGlyValIleAlaAlaIleValGln 140
Db      158 GTTTCATCACTCTCTTGGCATTTGGTTTACCTGCCAGAGGTATAGCACCAATTGCCAA 99
QY      141 LeuHisAsnGlyThrLysTrpLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
Db      98  CTTCAATATGAAACCAAGATAGAAGATTCCACATCTGTTGATTAAGATGATTTAACA 39
QY      161 ArgLysGlnPheGlyLeuLeuSerPhePheAla 172
Db      38  AGAAAGCAATTTGGCTTCTCAGTTCTTTTGGCT 3

RESULT 14
US-09-352-616A-342/C
; Sequence 342. Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yugu
; APPLICANT: Xu, Jiaqichun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 592
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-342

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Pred. No.: 5,62e-98 Length: 592
 Score: 905.00 Matches: 171
 Percent Similarity: 99.42% Conservative: 0
 Best Local Similarity: 99.42% Mismatches: 1
 Query Match: 50.56% Indels: 0
 DB: 3 Gaps: 0

US-10-750-262-2 (1-339) x US-09-352-616A-342 (1-592)

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OY 1 MetGuseArGlyAAspIleThrAsnGlnGluLeuTrpLysMetLysProArgArg 20
DB 518 ATGAAAGCAAGAAAGACATCATCAAAACCAAGAAAGACTTGGAAATGAAGCTTAGAGAGA 459
OY 21 AsnLeuGluGluAAspAspTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 458 AATTAGAAAGAAAGACATTAATTGCAATAGAAACAGGAGAGACAGACATGCTAAAGAGA 399
OY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 398 CCGTGGCTTTGCAATTTGGACCAACAGCCCATGCGATGAATTGACCTGCCCTTCAGAA 339
OY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLysLeuProIleLysIleAlaIle 80
DB 338 CTTGACGACACACAGGAACCTTTCCACAGTGGCACTTGCCTCAATTAATAAGCTGTATT 279
OY 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
DB 278 ATAGCATCTCTGACTTTCTTACACTCTTGAGGAAAGTAATACCCCTTAGCAACT 219
OY 101 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuPromet 120
DB 218 TCCCATCAACAATATTTTATTAATTCCAATCTGGTATCAACAAGCTTGGCAATG 159
OY 121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaIleValGln 140
DB 158 GTTTCATCATCTCTCTGGCATTTGTTACCTGCCAGGTGTGATAGACAAATGTCCAA 99
OY 141 LeuHisAsnGlyThrLysTyrLysLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
DB 98 CTTCAATATGGAACCAAGTATAGAAATTTCCACATTTGGATAGTGAATGATTACCA 39
OY 161 ArgLysGlnPheGlyLeuLeuSerPhePheAla 172
DB 38 AGAAAGCARATTGGGCTTTCAGTTCTTTTGGCT 3

RESULT 15
; Sequence 342, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Carter, Derrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; NUMBER OF SEQ ID NOS: 852

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SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 342
 ; LENGTH: 592
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-636-215-342

Alignment Scores:

Pred. No.: 5,62e-98 Length: 592
 Score: 905.00 Matches: 171
 Percent Similarity: 99.42% Conservative: 0
 Best Local Similarity: 99.42% Mismatches: 1
 Query Match: 50.56% Indels: 0
 DB: 3 Gaps: 0

US-10-750-262-2 (1-339) x US-09-636-215-342 (1-592)

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OY 1 MetGuseArGlyAAspIleThrAsnGlnGluLeuTrpLysMetLysProArgArg 20
DB 518 ATGAAAGCAAGAAAGACATCATCAAAACCAAGAAAGACTTGGAAATGAAGCTTAGAGAGA 459
OY 21 AsnLeuGluGluAAspAspTyrLeuHisLysAspThrGlyGluThrSerMetLeuLysArg 40
DB 458 AATTAGAAAGAAAGACATTAATTGCAATAGAAACAGGAGAGACAGACATGCTAAAGAGA 399
OY 41 ProValLeuLeuHisLysGlnThrAlaHisAlaAspGluPheAspCysProSerGlu 60
DB 398 CCGTGGCTTTGCAATTTGGACCAACAGCCCATGCGATGAATTGACCTGCCCTTCAGAA 339
OY 61 LeuGlnHisThrGlnGluLeuPheProGlnTrpHisLysLeuProIleLysIleAlaIle 80
DB 338 CTTGACGACACACAGGAACCTTTCCACAGTGGCACTTGCCTCAATTAATAAGCTGTATT 279
OY 81 IleAlaSerLeuThrPheLeuTyrThrLeuLeuArgGluValIleHisProLeuAlaThr 100
DB 278 ATAGCATCTCTGACTTTCTTACACTCTTGAGGAAAGTAATACCCCTTAGCAACT 219
OY 101 SerHisGlnGlnTyrPheTyrLysIleProIleLeuValIleAsnLysValLeuPromet 120
DB 218 TCCCATCAACAATATTTTATTAATTCCAATCTGGTATCAACAAGCTTGGCAATG 159
OY 121 ValSerIleThrLeuLeuAlaLeuValTyrLeuProGlyValIleAlaIleValGln 140
DB 158 GTTTCATCATCTCTCTGGCATTTGTTACCTGCCAGGTGTGATAGACAAATGTCCAA 99
OY 141 LeuHisAsnGlyThrLysTyrLysLysPheProHisTrpLeuAspLysTrpMetLeuThr 160
DB 98 CTTCAATATGGAACCAAGTATAGAAATTTCCACATTTGGATAGTGAATGATTACCA 39
OY 161 ArgLysGlnPheGlyLeuLeuSerPhePheAla 172
DB 38 AGAAAGCARATTGGGCTTTCAGTTCTTTTGGCT 3

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Search completed: December 6, 2005, 18:45:28
 Job time : 231 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 5, 2005, 03:12:22 ; Search time 320.456 Seconds
(without alignments)
987.688 Million cell updates/sec

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Perfect score: 1017
Sequence: 1 atggaagcagaagacat.....ctgagatgtccacgtg 1017

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3289935 seqs, 15561003 residues

Total number of hits satisfying chosen parameters: 6579870

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	37.2	3.7	2464	6	US-10-750-185-39315 Sequence 39315, A
3	36	3.5	872	6	US-10-750-185-49060 Sequence 49060, A
4	34.2	3.4	1012	6	US-10-750-185-54610 Sequence 54610, A
5	34.2	3.4	3609	6	US-10-750-185-63875 Sequence 63875, A
6	34	3.3	1240	6	US-10-750-185-30880 Sequence 30880, A
7	33.8	3.3	1458	6	US-10-821-234-142 Sequence 142, App
8	33.8	3.3	2748	6	US-10-750-185-48714 Sequence 48714, A
9	33.4	3.3	1840	6	US-10-750-185-38532 Sequence 38532, A
10	33.2	3.3	973	6	US-10-750-185-55293 Sequence 55293, A
11	33.2	3.3	340000	7	US-11-108-172-547 Sequence 547, App1
12	32.8	3.2	399	7	US-11-108-172-547 Sequence 547, App
13	32.8	3.2	1135	6	US-10-750-185-58068 Sequence 58068, A
14	32.8	3.2	1765	6	US-10-750-185-54184 Sequence 54184, A
15	32.4	3.2	1307	6	US-10-986-501-27 Sequence 27, App1
16	32.4	3.2	1257	6	US-10-750-185-54772 Sequence 54772, A
17	32.2	3.2	1993	6	US-10-750-185-64012 Sequence 64012, A
18	32.2	3.2	1454	6	US-10-750-185-64704 Sequence 64704, A
19	32	3.1	1252	6	US-10-750-185-62619 Sequence 62619, A
20	32	3.1	3310	6	US-10-750-185-24645 Sequence 24645, A
21	32	3.1	4753	6	US-10-750-185-33545 Sequence 33545, A
22	31.8	3.1	1370	6	US-10-750-185-57153 Sequence 57153, A
23	31.8	3.1	1986	6	US-10-793-626-273 Sequence 273, App

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25	31.8	3.1	3165	6	US-10-793-626-3360 Sequence 3360, Ap
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31	31.6	3.1	1838	6	US-10-750-185-52241 Sequence 52241, A
32	31.6	3.1	3001	7	US-11-145-703-175 Sequence 175, App
33	31.6	3.1	3001	7	US-11-145-703-176 Sequence 176, App
34	31.6	3.1	150491	7	US-11-112-908-46 Sequence 46, App1
35	31.4	3.1	600	6	US-10-750-185-1485 Sequence 1485, Ap
36	31.4	3.1	1407	6	US-10-750-185-44414 Sequence 44414, A
37	31.4	3.1	1637	6	US-10-750-185-26752 Sequence 26752, A
38	31.4	3.1	2205	6	US-10-750-185-27481 Sequence 27481, A
39	31.4	3.1	4176	6	US-10-793-626-4262 Sequence 4262, Ap
40	31.4	3.1	149419	7	US-11-112-908-47 Sequence 47, App1
41	31.4	3.1	166111	7	US-11-112-908-49 Sequence 49, App1
42	31.2	3.1	1123	6	US-10-750-185-54609 Sequence 54609, A
43	31.2	3.1	1621	6	US-10-750-185-63586 Sequence 63586, A
44	31.2	3.1	2988	6	US-10-750-185-30138 Sequence 30138, A
45	31.2	3.1	3194	6	US-10-750-185-48072 Sequence 48072, A

ALIGNMENTS

RESULT 1
US-10-750-185-25365
; Sequence 25365, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OR INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patent version 3.1
; SEQ ID NO 25365
; LENGTH: 1779
; TYPE: DNA
; ORGANISM: Bovine 19866880604913
US-10-750-185-25365
Query Match 3.9%; Score 39.2; DB 6; Length 1779;
Best local Similarity 54.1%; Pred. No. 0.1;
Matches 80; Conservative 0; Mismatches 68; Indels 0; Gaps 0;
QY 704 TGACATCATTCATCTGAGTACTTTGATCATGAGAGAAATTCATATTCAGA 763
|||||
DB 765 TGACATTAATTCGTCTGCTGCTGATCTTATCTGATCGGCTTAATATATCA 824
764 GCAAGCTAGGAATTTGCTCTTCTACTGGGACATATACGATGATTTTGGCTGGA 823
|||||
DB 825 AAAGCAGCATGACACTTACGCTTTGCTGCGAAATTAAGATTAATGATTTGCTTTGT 884
824 ATAAAGTATGATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 851
885 TAACCTATATTTTAAATAAATAATGATTTGT 912
RESULT 2
US-10-750-185-39315/c
; Sequence 39315, Application US/10750185

```
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
PRIOR FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 39315
LENGTH: 2464
TYPE: DNA
ORGANISM: Bovine 19866881564211
US-10-750-185-39315
```

```
Query Match 3.7%; Score 37.2; DB 6; Length 2464;
Best Local Similarity 50.6%; Pred. No. 0.48;
Matches 90; Conservative 0; Mismatches 88; Indels 0; Gaps 0;
```

```
QY 834 AGATATAAACAATTGTATGTATACACCTCCAACTTTATGATGTTTCTCTCC 893
DB 1748 AGAGAAAGGAAATTCGTGAATATATAAATGCCATTCGTGAGTATATCTGCACTTC 1689
QY 894 AATTGTCCTGATATTTAAAGCACTACTATTCCTGCCATGCTTGAGAGAAAGATCT 953
DB 1688 AACAGCAAGCATGATAATTTGCTCTCTCTGCTTATTAATAGTAAAGAAACAAGA 1629
QY 954 GAAGATTAGACATGTTGGAGAGCTCCCAAAATTAACAACGAGATATGTTCC 1011
DB 1628 CAAGATGTTAAACGTGGTAAAGAAATTAATAAACAACAACACATGTTTCC 1571
```

```
RESULT 3
US-10-750-185-49060
Sequence 49060, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 49060
LENGTH: 872
TYPE: DNA
ORGANISM: Bovine 19866881284640
US-10-750-185-49060
```

```
Query Match 3.5%; Score 36; DB 6; Length 872;
Best Local Similarity 51.9%; Pred. No. 0.61;
Matches 81; Conservative 0; Mismatches 75; Indels 0; Gaps 0;
```

```
QY 316 TTTTAAATTCATCCGTCGTCATCAACAAGTCTTGCAATGTTTCCATCACTCC 375
DB 57 TATCTCTTATCCAAACCCACACCTCCAACTCTTCCATTTATTTTCATTGCG 116
```

```
QY 376 TTGGCATGTTTACCTGCGAGGTGATAGAGCAATTTGCCAATTATAGAAC 435
DB 117 TTTATTTCCATTTTCCATCTCAGTACTAGTAATTTGAGATTGTAAGTAACC 176
QY 436 AAGTATAAGAGTTTCCATCTGTTGCTGAATGCG 471
DB 177 AAAATAGAGAGTTGGAAATGCTTATTTGCTGG 212
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RESULT 4
US-10-750-185-54610
Sequence 54610, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 54610
LENGTH: 1012
TYPE: DNA
ORGANISM: Bovine 19866881259787
US-10-750-185-54610
```

```
Query Match 3.4%; Score 34.2; DB 6; Length 1012;
Best Local Similarity 54.3%; Pred. No. 2.2;
Matches 69; Conservative 0; Mismatches 58; Indels 0; Gaps 0;
```

```
QY 235 GCTATTATGATCTGCTGACTTTCTTACACTCTTTCGAGGAGATATACCCCTTA 294
DB 237 GCAATTAACCCACCAACATTTCTTTATCTTGAAGTGTACATTTGACTTTT 296
QY 295 GCACTCCCATCAACAATTTTATAAATTCATCTCGTCAACAAGCTTGG 354
DB 297 AAAAATTAAGATTAATTTTGAAGATTCACTTAAGAGATTAAGAGCATC 356
QY 355 CCAATGG 361
DB 357 ACAATGG 363
```

```
RESULT 5
US-10-750-185-63875/c
Sequence 63875, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
```

```

; SEQ ID NO 63875
; LENGTH: 3609
; TYPE: DNA
; ORGANISM: Bovine
; US-10-750-185-63875

```

Query Match	3.4%	Score 34.2;	DB 6;	Length 3609;
Best Local Similarity	58.3%	Pred. No. 4.5;		
Matches 60;	Conservative 0;	Mismatches 43;	Indels 0;	Gaps 0;

237 TATTATAGCATCTGTGACTTTTCTTACACTCTTCGAGGGAAATAATCACCCTTAGC 296
||||| ||||| ||||| ||||| ||||| |||||
1979 TATTTAAGCATTTTTCAAAATTACTTCACAGCTTTTAAGATCATCATTAATTGCTGCAT 1920

297 AACTTCCCATCACAATATTTTATAAATTCCAATCCTGTC 339
1919 AACATTCATGAGAAATGTTTTTAACTTACATAAGCATGTC 1877

RESULT 6
S-10-750-185-30880

Sequence 30880, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Denis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
CURRENT FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 30880
LENGTH: 1240
TYPE: DNA
ORGANISM: Bovine
--10-750-185-30880

Query Match	3.3%	Score 34;	DB 6;	Length 1240;
Best Local Similarity	46.9%	Pred. No. 2.9;		
Matches 106;	Conservative 0;	Mismatches 120;	Indels 0;	Gaps 0;

[illegible]

RESULT 7
S-10-821-234-142
Sequence 142, Application US/10821234
Publication No. US2005025114A1
GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Stache-Crain, Birgit

```

? APPLICANT: Andarmani, Susan
? APPLICANT: Tang, Y. Tom
? TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
? FILE REFERENCE: 821A
? CURRENT APPLICATION NUMBER: US/10/821,224
? CURRENT FILING DATE: 2004-04-07
? PRIOR APPLICATION NUMBER: US 60/462,047
? PRIOR FILING DATE: 2003-04-07
? NUMBER OF SEQ ID NOS: 1704
? SOFTWARE: pc_seq_genes Version 1.0
? SEQ ID NO 142
? LENGTH: 1458
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-10-821-234-142

Query Match          3.3%; Score 33.8; DB 6; Length 1458;
Best Local Similarity 47.1%; Pred. No. 3.6;
Matches 104; Conservative 0; Mismatches 117; Indels 0; Gaps

```

Query Match	3.3%;	Score	33.8;	DB	6;	Length	1458;
Best Local Similarity	47.1%;	Pred. No.	3.6;				
Matches	104;	Conservative	0;	Mismatches	117;	Indels	0;
				Gaps			0;

OY 12 AAAGA C ATCACA AACCAGAGAACTTGGAAAATGAGCTAGAGAAAATTAGAGA 71
| | | | | | | | | | | | | | | |
Db 287 AAGCGCAAGTCCCATGAAGCTGTGAGCTTTGAAGCAGCTGGCTGAGAAAACGAGACGCA 346
| | | | | | | | | | | | | | | |

QY 72 AGACGATTATTTGCATAAGCACACGGAGAGACCCAGCATGTAAAGAAGCCCTGTCTTT 131

D5 347 GAAAGAGTCTTCAGAGGCAATGAGAGAACAACTTCAGTAAATGCGAGAGA 406

Oy 132 GCATTGCAACCAACAGCCCATGCTGATGAATTGACTGCCCTTCAGAACTTACGACAC 191
Db 407 GAACTGACCACAATAATGAMGTAAATAGAAGAACCGAGAGGCACAAATGGCTGCCAA 466

Dy 192 ACAGAACCTTTCCACAGTGGACTTGCCAATTAAATG 223
||| ||| | | | | |
Dd 467 ACTGGACGTTTGCAGAGAAGATAAGCAATTGAAGAG 507

```

1 RESULT 8
2 US-10-750-185-48714
3 Sequence 48714, Application US/10750185
4 Publication NO. US2005026063A1
5 GENERAL INFORMATION:
6 APPLICANT: MMI GENOMICS, INC.
7 APPLICANT: DENISE, Sue K.
8 APPLICANT: KERR, Richard
9 APPLICANT: ROSENFELD, David
10 APPLICANT: HOLM, Tom
11 APPLICANT: BATES, Stephen
12 APPLICANT: FANTIN, Dennis
13 TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
14 FILE REFERENCE: MM11100-2
15 CURRENT APPLICATION NUMBER: US/10/750,185
16 CURRENT FILING DATE: 2003-12-31
17 PRIOR APPLICATION NUMBER: US/60/437,482
18 PRIOR FILING DATE: 2002-12-31
19 NUMBER OF SEQ ID NOS: 64922
20 SOFTWARE: PatentIn version 3.1
21 SEQ ID NO 48714
22 LENGTH: 2748
23 TYPE: DNA
24 ORGANISM: Bovine
25 US-10-750-185-48714
26

```

Query Match	3.3%	Score 33.8	DB 6	Length 2748
Best Local Similarity	57.7%	Pred. No. 5		
Matches 79; Conservative	0	Mismatches 57	Indels 1	Gaps 1

QY 789 ACTGGGCAAAATACACGCGATATTTTGGCCGTGAATAAGTAGATATAAAACAATT 844

DB 666 ACTGGATAATGATGACATGCAATCTTTTCCCTTGACTCTCTAATGAGCTTAAGC-ATT 72

QY 849 TGTATGGTATACACCTCCAACTTATATGATAGCTTTTCCCTCCAAATGTGTCTGAT 908

Db 725 TGATGGCATTGTCTACAAATGACATGATAGTAGTGAATACGCTAAATCTGGGGTAAAT 784
QY 909 ATTTAAAGCATACTAT 925
Db 785 TTCTAAACCAATATCT 801

RESULT 9
US-10-750-185-38532/c
; Sequence 38532, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFIELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38532
; LENGTH: 1840
; TYPE: DNA
; ORGANISM: Bovine 19866881352831
US-10-750-185-38532

Query Match 3.3%; Score 33.4; DB 6; Length 1840;
Best Local Similarity 58.6%; Pred. No. 5.3; Indels 0; Gaps 0;
Matches 58; Conservative 0; Mismatches 41; Indels 0; Gaps 0;
QY 836 ATATAAACAATTTGATGATATACACCTCCAACTTTTATGATAGCTTTTCCTCCAA 895
Db 1252 ATATGAAATGTATTTGCTTTGACTTATTAATCTTTTATACCTCTTTTTCAGA 1193
QY 896 TTGTGTCTGATATTTAAAGCATACTATTCCTCCAT 934
Db 1192 TATCTTGTCTTAATCTTCAAGATCAGATTAATGCAAT 1154

RESULT 10
US-10-750-185-35293
; Sequence 35293, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFIELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35293
; LENGTH: 973
; TYPE: DNA
; ORGANISM: Bovine 19866881541753
US-10-750-185-35293
Query Match 3.3%; Score 33.2; DB 6; Length 973;

Best Local Similarity 57.8%; Pred. No. 4.3;
Matches 59; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
QY 870 TTTATGATAGCTGTTTCTCCATTTGCTCGATATTTAAAGCATACTATCT 929
Db 844 TTTTAAAGCTGTTGTTACGCTCATAGTTTATTCAGTAACAAGATGTACACCC 903
QY 930 GCCATGCTTGAGAGAGAACTAGTGAATTTAGACATGGTTG 971
Db 904 CCAGGCGTGAAGGTGAGATCCCAAGAGAGGCGCTGATG 945

RESULT 11
US-11-102-978-3/c
; Sequence 3, Application US/11102978
; Publication No. US20050250142A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Technology Transfer Office
; APPLICANT: University of Utah Research Foundation
; TITLE OF INVENTION: Diagnosis and Treatment of Herpes Simplex Virus Disease
; FILE REFERENCE: 0274-5537, US
; CURRENT APPLICATION NUMBER: US/11/102,978
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: PCT/US2003/033152
; PRIOR FILING DATE: 2003-10-18
; PRIOR APPLICATION NUMBER: 60/419,576
; PRIOR FILING DATE: 2002-10-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 340000
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: exon
; LOCATION: (56948)..(57115)
; OTHER INFORMATION: C21orf34 exon
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (80066)..(81089)
; OTHER INFORMATION: Gene VDACP; voltage-dependent anion channel isoform 2 pseudogene
; NAME/KEY: exon
; LOCATION: (167308)..(167438)
; OTHER INFORMATION: C21orf34 exon
; FEATURE:
; NAME/KEY: exon
; LOCATION: (216732)..(216833)
; OTHER INFORMATION: C21orf34 exon
US-11-102-978-3

Query Match 3.3%; Score 33.2; DB 7; Length 340000;
Best Local Similarity 52.1%; Pred. No. 98; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 68; Indels 0; Gaps 0;
QY 746 AATTCATATATTCAGAGCAAGTATGTTTCCCTTACTGGGCAATACAG 805
Db 9668 AATTAAGATATCATAGTTCAGTACAGATTTACCTTTATTTGGCATAGTCA 9609
QY 806 CATGATTTTGGCCGGAATTAAGGATGATATTAACAATTTGATGATACCTC 865
Db 9608 CAGTACGATATTTTATTTGTCTTATTTGATTTCAAAACAAATATATGTACCCCTT 9549
QY 866 CAATTTATGATAGCTGTTT 887
Db 9548 CTATGCTAAGCCAGTATAT 9527

RESULT 12
US-11-108-172-547/c
; Sequence 547, Application US/11108172
; Publication No. US20050260177A1
; GENERAL INFORMATION:


```
/ APPLICANT: Ruben et al.
/ TITLE OF INVENTION: 90 Human Secreted Proteins
/ FILE REFERENCE: P2013p2c1
/ CURRENT APPLICATION NUMBER: US/10/986,501
/ CURRENT FILING DATE: 2004-11-12
/ PRIOR APPLICATION NUMBER: US/10/621,363
/ PRIOR FILING DATE: 2003-07-18
/ PRIOR APPLICATION NUMBER: 09/969,730
/ PRIOR FILING DATE: 2001-10-06
/ PRIOR APPLICATION NUMBER: 09/774,639
/ PRIOR FILING DATE: 2001-02-01
/ PRIOR APPLICATION NUMBER: 60/238,291
/ PRIOR FILING DATE: 2000-10-06
/ PRIOR APPLICATION NUMBER: 09/244,112
/ PRIOR FILING DATE: 1999-02-04
/ PRIOR APPLICATION NUMBER: PCT/US98/16235
/ PRIOR FILING DATE: 1998-08-04
/ PRIOR APPLICATION NUMBER: 60/056,371
/ PRIOR FILING DATE: 1997-08-19
/ PRIOR APPLICATION NUMBER: 60/056,732
/ PRIOR FILING DATE: 1997-08-19
/ PRIOR APPLICATION NUMBER: 60/056,366
/ PRIOR FILING DATE: 1997-08-19
/ PRIOR APPLICATION NUMBER: 60/056,364
/ PRIOR FILING DATE: 1997-08-19
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 373
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 27
/ LENGTH: 1307
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-10-986-501-27

Query Match      3.2%; Score 32.4; DB 6; Length 1307;
Best Local Similarity 50.5%; Pred. No. 8.7;
Matches 111; Conservative 0; Mismatches 101; Indels 8; Gaps 1;

QY      590 ATCAACAGGTCCAAGAAATTAAGAAATGCTGATTTGAGCATGATGTTGGAGAAATG 649
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      573 ATCCACAGGTGGCGAAATGAGAGACCTCTGATGACTGATTAATTAATTAACCA 514

QY      650 AGATTATGTCGTCTGGGAATTTGCGATTGGCAATAGCTGCTGTTGGCTGTGACAT 709
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      513 AGAATGTGTTTTCTTGAACCTTTACTTCAAAACAGCTGCTTA-----GACAC 462

QY      710 CTATTCATCTGTGAGTGACTTTTGACATGAGAGAAATTTCACTAATTCAGAGCAAGC 769
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      461 ATATTGAACAAGTAATGCTCTCTCTGAAACAGGGTTAACGATTTTACAAACATT 402

QY      770 TAGGAATTGTTCCCTTCTACTGCGCAATACAGCATT 809
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      401 AGCCCATTTTTCATCTTCTTGAAGCATCTTTTAATATT 362
```

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Job time : 323.456 secs

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OM nucleic - nucleic search, using sw model

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8858.046 Million cell updates/sec

Title: US-10-750-262-1_COPY_66_1082
Perfect score: 1017
Sequence: 1 atcgaaagcagaagacat.....ctgagatgtctccagctg 1017

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Maximum Match 100%
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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1017	100.0	1177	US-10-696-639-15	Sequence 15, Appl
2	1017	100.0	1193	US-10-165-044-1	Sequence 1, Appl
3	1017	100.0	1193	US-10-408-009-1	Sequence 1, Appl
4	1017	100.0	1193	US-10-857-785-1	Sequence 1, Appl
5	1017	100.0	1193	US-10-856-109-1	Sequence 1, Appl
6	1017	100.0	1193	US-10-830-899-2	Sequence 2, Appl
7	1017	100.0	1193	US-10-753-195-1	Sequence 1, Appl
8	1017	100.0	1193	US-10-752-421-1	Sequence 1, Appl
9	1017	100.0	1193	US-10-861-662-2	Sequence 2, Appl
10	1017	100.0	1193	US-09-759-143-878	Sequence 878, App
11	1017	100.0	1193	US-09-780-669-878	Sequence 878, App
12	1017	100.0	1193	US-09-822-827-878	Sequence 878, App
13	1017	100.0	1193	US-09-885-793-878	Sequence 878, App
14	1017	100.0	1193	US-09-895-814-878	Sequence 878, App
15	1017	100.0	1193	US-10-012-896-878	Sequence 878, App
16	1017	100.0	1193	US-10-011-095-1	Sequence 1, Appl
17	1017	100.0	1193	US-10-010-667A-1	Sequence 1, Appl
18	1017	100.0	1193	US-10-205-823-396	Sequence 396, App
19	1017	100.0	1193	US-10-144-678A-878	Sequence 878, App
20	1017	100.0	1193	US-10-234-025-878	Sequence 878, App
21	1017	100.0	1193	US-10-393-590-35	Sequence 35, Appl
22	1017	100.0	1193	US-10-393-567-35	Sequence 35, Appl
23	1017	100.0	1193	US-10-394-087-35	Sequence 35, Appl

24	1017	100.0	1193	US-10-295-027-713	Sequence 713, App
25	1017	100.0	1193	US-10-295-027-1110	Sequence 1110, App
26	1017	100.0	1193	US-10-643-795A-16	Sequence 16, Appl
27	1017	100.0	1193	US-10-643-795A-42	Sequence 42, Appl
28	1017	100.0	1193	US-10-750-262-1	Sequence 1, Appl
29	1017	100.0	1193	US-10-948-518-16	Sequence 16, Appl
30	1017	100.0	1193	US-10-948-518-42	Sequence 42, Appl
31	1017	100.0	1193	US-10-956-157-1811	Sequence 1811, App
32	1017	100.0	1193	US-10-956-157-7046	Sequence 7046, App
33	1017	100.0	1193	US-10-858-887-1	Sequence 1, Appl
34	1017	100.0	1193	US-10-631-467-428	Sequence 428, App
35	1017	100.0	1193	US-11-051-454-396	Sequence 396, App
36	1017	100.0	1201	US-10-425-114-16445	Sequence 16445, A
37	1017	100.0	1277	US-09-814-353-19910	Sequence 19910, A
38	1017	100.0	1330	US-10-755-889-191	Sequence 191, App
39	988	97.1	1354	US-10-723-860-5120	Sequence 5120, App
40	870	85.5	1365	US-10-830-899-6	Sequence 6, Appl
41	870	85.5	1365	US-10-861-662-6	Sequence 6, Appl
42	762.2	74.9	3627	US-10-830-899-10	Sequence 10, Appl
43	762.2	74.9	3627	US-10-861-662-10	Sequence 10, Appl
44	760.6	74.8	3627	US-10-011-095-6	Sequence 6, Appl
45	760.6	74.8	3627	US-10-010-667A-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1
US-10-696-639-15
Sequence 15, Application US/10696639
Publication No. US20050037439A1
GENERAL INFORMATION:
APPLICANT: Bourcier, Maureen J
TITLE OF INVENTION: DIFFERENTIALLY EXPRESSED GENES INVOLVED IN CANCER, THE
FILE REFERENCE: POLYPEPTIDES ENCODED THEREBY, AND METHODS OF USING THE SAME
CURRENT APPLICATION NUMBER: US/10/696,639
CURRENT FILING DATE: 2003-10-29
PRIOR APPLICATION NUMBER: 60/422,176
PRIOR FILING DATE: 2002-10-29
NUMBER OF SEQ ID NOS: 3114
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 1177
TYPE: DNA
ORGANISM: homo sapiens
US-10-696-639-15

Query Match 100.0%; Score 1017; DB 8; Length 1177;

Best Local Similarity 100.0%; Pred. No. 6.9e-277;

Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	ATGGAAGCAGAAAGACATACAAACCAAGAACTTTGAAATGAAAGCTTAGGACA	60
DB	66	ATGGAAGCAGAAAGACATACAAACCAAGAACTTTGAAATGAAAGCTTAGGACA	125
QY	61	AAATTGAAGAAACATATTGTCATTAAGGACAGCGGAGAGCCAGCATGCTTAAAGA	120
DB	126	AAATTGAAGAAACATATTGTCATTAAGGACAGCGGAGAGCCAGCATGCTTAAAGA	185
QY	121	CTGTGCTTTTGATTTGACCAAGAGCCATGATGATGAAATTTGATGCTCCCTTGACA	180
DB	186	CTGTGCTTTTGATTTGACCAAGAGCCATGATGATGAAATTTGATGCTCCCTTGACA	245
QY	181	CTTGAGCAGACAGAGAACTCTTTTCAACAGTGGCACTTGCAATTAAATAGCTGCTATT	240
DB	246	CTTGAGCAGACAGAGAACTCTTTTCAACAGTGGCACTTGCAATTAAATAGCTGCTATT	305
QY	241	ATGAGCATCTGATCTTTTCACTTCTTGAGGAAGTAAATACCCCTTAGCACT	300
DB	306	ATGAGCATCTGATCTTTTCACTTCTTGAGGAAGTAAATACCCCTTAGCACT	365

QY 301 TCCATCAACAATATTTTATTAATAATTCATCTGTCATCAACAAAGTCTGGCAATG 360
Db 366 TCCCATCAACAATATTTTATTAATAATTCATCTGTCATCAACAAAGTCTGGCAATG 425
QY 361 GTTTCATCACTCTCTGGATGGTTTACCTGCAAGTGTATAGAGCAATGTCAC 420
Db 426 GTTTCATCACTCTCTGGATGGTTTACCTGCAAGTGTATAGAGCAATGTCAC 485
QY 421 CTTCAATATGGAACCAAGTATTAAGAAAGTTTCAATGTTGATTAAGATTTTACA 480
Db 486 CTTCAATATGGAACCAAGTATTAAGAAAGTTTCAATGTTGATTAAGATTTTACA 545
QY 481 AGAAGAGATTTGGGCTCTCAAGTTCTTTTGTCTGCTGATGCAATTTATAGTCTG 540
Db 546 AGAAGAGATTTGGGCTCTCAAGTTCTTTTGTCTGCTGATGCAATTTATAGTCTG 605
QY 541 TCTTACCCATAGAGGAGTCTCTACAGTATAGTGTAACTGGGATTCACAGGTC 600
Db 606 TCTTACCCATAGAGGAGTCTCTACAGTATAGTGTAACTGGGATTCACAGGTC 665
QY 601 CAACAAATTAAGAAAGTCTGATTTGAGCATGATGTTGAGAAATGAGATTTATG 660
Db 666 CAACAAATTAAGAAAGTCTGATTTGAGCATGATGTTGAGAAATGAGATTTATG 725
QY 661 TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGCTGCTGATCTATTTCAATCT 720
Db 726 TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGCTGCTGATCTATTTCAATCT 785
QY 721 GTGAGTGAATCTTTGAGCATGAGAGAAATTCATCATTTTCAAGAGCAAGTATTTGT 780
Db 786 GTGAGTGAATCTTTGAGCATGAGAGAAATTCATCATTTTCAAGAGCAAGTATTTGT 845
QY 781 TCCCTTCTACTGGGCAACAATACACGATTTGCTGGAATTAAGTATAGATATA 840
Db 846 TCCCTTCTACTGGGCAACAATACACGATTTGCTGGAATTAAGTATAGATATA 905
QY 841 AACAATTTGATAGATTAACCTCCCACTTTATGATAGCTGTTTCTTCCATTTGTT 900
Db 906 AACAATTTGATAGATTAACCTCCCACTTTATGATAGCTGTTTCTTCCATTTGTT 965
QY 901 GTCCGATATTTAAAGCATACTATTCCTGCGATGCTGAGAAAGATCTGAAGATT 960
Db 966 GTCCGATATTTAAAGCATACTATTCCTGCGATGCTGAGAAAGATCTGAAGATT 1025
QY 961 AGACATGTTGGGAGACGTACCAAAATTTACAAAATGAGATATGTTCCAGTTG 1017
Db 1026 AGACATGTTGGGAGACGTACCAAAATTTACAAAATGAGATATGTTCCAGTTG 1082

RESULT 2
US-10-165-044-1
Sequence 1, Application US/10165044
Publication No. US20030149531A1
GENERAL INFORMATION:
APPLICANT: Agensys, Inc.
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas Saffran
APPLICANT: Daniel E.H. Afar
APPLICANT: Steven Chappell Mitchell
APPLICANT: Mary Paris
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 51158-20016.02
CURRENT APPLICATION NUMBER: US/10/165,044
PRIOR FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: US 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: US 60/091,183
PRIOR FILING DATE: 1998-06-30
PRIOR APPLICATION NUMBER: US 09/323,873
PRIOR FILING DATE: 1999-06-01

QY 1 ATGGAAGAGAGAAAGACATCAACCAAGAAAGACTTTGAAATGAAAGCTAGAGACA 60
Db 64 ATGGAAGAGAGAAAGACATCAACCAAGAAAGACTTTGAAATGAAAGCTAGAGACA 123
QY 61 AATTGAGAAAGACGATTTATTTGATTAAGACACGGGAGAGACAGCATGCTAAAGAGA 120
Db 124 AATTGAGAAAGACGATTTATTTGATTAAGACACGGGAGAGACAGCATGCTAAAGAGA 183
QY 121 CCTGTCTTTTGTGATTTGACCAACAGCCCATGCTGATGAATTTGATGCTCCCTTCA 180
Db 184 CCTGTCTTTTGTGATTTGACCAACAGCCCATGCTGATGAATTTGATGCTCCCTTCA 243
QY 181 CTTGAGCACACAGAGAACTTTTCCAGAGTGGCACTTCCATTTAAATAGCTGATTT 240
Db 244 CTTGAGCACACAGAGAACTTTTCCAGAGTGGCACTTCCATTTAAATAGCTGATTT 303
QY 241 ATAGCATCTGATCTTTCTTTTCACTCTTCTGAGGAGATTAATTCACCTTTAGCACT 300
Db 304 ATAGCATCTGATCTTTCTTTTCACTCTTCTGAGGAGATTAATTCACCTTTAGCACT 363
QY 301 TCCCATCAACAATATTTTATTAATAATTCATTCCTGCTGATCAACAAAGTCTTCCATG 360
Db 364 TCCCATCAACAATATTTTATTAATAATTCATTCCTGCTGATCAACAAAGTCTTCCATG 423
QY 361 GTTTCATGATCTCTGCGATTTGTTTACCTGCGAGGATGATGAGCAATGTCGCA 420
Db 424 GTTTCATGATCTCTGCGATTTGTTTACCTGCGAGGATGATGAGCAATGTCGCA 483
QY 421 CTTCAATATGGAACCAAGTATTAAGAAAGTTTCCAAATGTTGATTAAGTATTAACA 480
Db 484 CTTCAATATGGAACCAAGTATTAAGAAAGTTTCCAAATGTTGATTAAGTATTAACA 543
QY 481 AGAAGAGATTTGGGCTCTCAAGTTCTTTTGTCTGATCTGATGCAATTTATAGTCTG 540
Db 544 AGAAGAGATTTGGGCTCTCAAGTTCTTTTGTCTGATCTGATGCAATTTATAGTCTG 603
QY 541 TCTTACCCATAGAGGAGATCTTCAAGATTAAGAAAGTTTCAATGTTGATTAAGATTTTACA 600
Db 604 TCTTACCCATAGAGGAGATCTTCAAGATTAAGAAAGTTTCAATGTTGATTAAGATTTTACA 663
QY 601 CAACAAATTAAGAAAGATGCTGATTTGAGATGATGTTTGGAGATGAGATTTATG 660
Db 664 CAACAAATTAAGAAAGATGCTGATTTGAGATGATGTTTGGAGATGAGATTTATG 723
QY 661 TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGCTGCTGATCAATTTATCAATCT 720
Db 724 TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGCTGCTGATCAATTTATCAATCT 783
QY 721 GTGAGTGAATCTTTGAGCATGAGAGAAATTTCAATATTTCAAGAGCAAGTATTTGT 780
Db 784 GTGAGTGAATCTTTGAGCATGAGAGAAATTTCAATATTTCAAGAGCAAGTATTTGT 843

Qy 781 TCCCTTCTACTGGGCAACAATACAGCATGATTTTGGCTGGAAATAGTGATGATATA 840
Db 844 TCCCTTCTACTGGGCAACAATACAGCATGATTTTGGCTGGAAATAGTGATGATATA 903
Qy 841 AAACAAATTTGATGATACACCTTCCAACTTTTATGATAGCTTTTCTTCCAAATGTT 900
Db 904 AAACAAATTTGATGATACACCTTCCAACTTTTATGATAGCTTTTCTTCCAAATGTT 963
Qy 901 GTCCGATATTTAAAGCACTATCTTCCGCAATGCTTGAAGAGAAATGTAAGAT 960
Db 964 GTCCGATATTTAAAGCACTATCTTCCGCAATGCTTGAAGAGAAATGTAAGAT 1023
Qy 961 AGACATGTTGGGAAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1017
Db 1024 AGACATGTTGGGAAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1080

RESULT 3

US-10-408-009-1
; Sequence 1, Application US/10408009
; Publication No. US20040072196A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 51158201603
; CURRENT APPLICATION NUMBER: US/10/408, 009
; PRIOR FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64)...(1083)
US-10-408-009-1

Query Match 100.0%; Score 1017; DB 7; Length 1193;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGGAAGAGCAAAAGACATACAAACAGAGAAAGACTTTGAAAAATGAAGCCTAGAGA 60
Db 64 ATGGAAGAGCAAAAGACATACAAACAGAGAAAGACTTTGAAAAATGAAGCCTAGAGA 123
Qy 61 AATTAAAGAGAGCGATTATTTGATTAAGAGACGGGAGACAGAGATGCTAAAAAGA 120
Db 124 AATTAAAGAGAGCGATTATTTGATTAAGAGACGGGAGACAGAGATGCTAAAAAGA 183
Qy 121 CCTGTGCTTTTGAATTTGACCAAAAGCCCATCTGATGAATTTGAATGCTCTTCAAGAA 180
Db 184 CCTGTGCTTTTGAATTTGACCAAAAGCCCATCTGATGAATTTGAATGCTCTTCAAGAA 243
Qy 181 CTTAGAGACACAGAGAACTTTTCCACAGTGGCACTTGGCAATTTAAATAGCTGATTT 240
Db 244 CTTAGAGACACAGAGAACTTTTCCACAGTGGCACTTGGCAATTTAAATAGCTGATTT 303
Qy 241 ATAGCATCTGACATTTCTTTACACTCTTCTGAGGGAAGTATTTCAACCCCTTGAAGACT 300
Db 304 ATAGCATCTGACATTTCTTTACACTCTTCTGAGGGAAGTATTTCAACCCCTTGAAGACT 363
Qy 301 TCCCATCAACATAATTTTATTAATTCGAATCTGTGTCATCAAAAGTCTTCCAAATG 360

Db 364 TCCCATCAACATAATTTTATTAATTCGAATCTGTGTCATCAAAAGTCTTCCAAATG 423
Qy 361 GTTTCATCACTCTTGGCAATGTTTACCTGCAAGTGTGATAGAGCAATTTGTCAA 420
Db 424 GTTTCATCACTCTTGGCAATGTTTACCTGCAAGTGTGATAGAGCAATTTGTCAA 483
Qy 421 CTTATATATGAACCAAGTATTAAGAACTTTCCAACTTGTGATTAAGTATGATTAACA 480
Db 484 CTTATATATGAACCAAGTATTAAGAACTTTCCAACTTGTGATTAAGTATGATTAACA 543
Qy 481 AGAAGAGAGTTGGGCTTCTCAAGTTTCTTTTGTGCTGATGATGCAATTTATAGCTG 540
Db 544 AGAAGAGAGTTGGGCTTCTCAAGTTTCTTTTGTGCTGATGATGCAATTTATAGCTG 603
Qy 541 TCTTACCAGATGAGGAGCTCTCAGATACAGATGAGTGAATGAGGCAATTCACAGAGTC 600
Db 604 TCTTACCAGATGAGGAGCTCTCAGATACAGATGAGTGAATGAGGCAATTCACAGAGTC 663
Qy 601 CAACAAATTAAGAGAGTGGCTGATGAGCATGATGTTGGAGAAATGAGATTTATGTC 660
Db 664 CAACAAATTAAGAGAGTGGCTGATGAGCATGATGTTGGAGAAATGAGATTTATGTC 723
Qy 661 TCTGTGGGAATTTGGGATTTGGCAATTCCTGCTGTTGGCTGTGACATCTATTCATCT 720
Db 724 TCTGTGGGAATTTGGGATTTGGCAATTCCTGCTGTTGGCTGTGACATCTATTCATCT 783
Qy 721 GTGAGTACCTTTGACATGAGAGAACTTCACTATTTAGAGAGCAAGTATGATGTT 780
Db 784 GTGAGTACCTTTGACATGAGAGAACTTCACTATTTAGAGAGCAAGTATGATGTT 843
Qy 781 TCCCTTCTACTGGGCAACAATACAGCATGATTTTGGCTGGAAATAGTGATGATATA 840
Db 844 TCCCTTCTACTGGGCAACAATACAGCATGATTTTGGCTGGAAATAGTGATGATATA 903
Qy 841 AAACAAATTTGATGATACACCTTCCAACTTTTATGATAGCTTTTCTTCCAAATGTT 900
Db 904 AAACAAATTTGATGATACACCTTCCAACTTTTATGATAGCTTTTCTTCCAAATGTT 963
Qy 901 GTCCGATATTTAAAGCACTATCTTCCGCAATGCTTGAAGAGAAATGTAAGAT 960
Db 964 GTCCGATATTTAAAGCACTATCTTCCGCAATGCTTGAAGAGAAATGTAAGAT 1023
Qy 961 AGACATGTTGGGAAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1017
Db 1024 AGACATGTTGGGAAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1080

RESULT 4

US-10-857-785-1
; Sequence 1, Application US/10857785
; Publication No. US20040219162A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 51158201607
; CURRENT APPLICATION NUMBER: US/10/857,785
; PRIOR FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1

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; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64)...(1083)
US-10-857-785-1
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Query Match      100.0%; Score 1017; DB 8; Length 1193;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 ATGGAAGCAGAAAGACATCAACCAAGAACTTTGGAAATGAACCTTAGAGA 60
DB      64 ATGGAAGCAGAAAGACATCAACCAAGAACTTTGGAAATGAACCTTAGAGA 123
QY      61 AATTGGAAGAACCGATTATTGCAATAGACACCGGAGAACCCGACATGCTAAAAAG 120
DB      124 AATTGGAAGAACCGATTATTGCAATAGACACCGGAGAACCCGACATGCTAAAAAG 183
QY      121 CCTGCTCTTGGATTGGACACCAAGCCCATGCTGATGAATTTGACCTCCCTAGAA 180
DB      184 CCGTGTCTTTGATTTGACACCAAGCCCATGCTGATGAATTTGACCTCCCTAGAA 243
QY      181 CTTGACGACACACAGAACTCTTTCCACAGTGGCACTTGCCTAAATTAATAGCTGATT 240
DB      244 CTTGACGACACACAGAACTCTTTCCACAGTGGCACTTGCCTAAATTAATAGCTGATT 303
QY      241 ATGCACTCTGCTCTTTCTTTACACTCTTCTGAGGAAATTAATTCACCTTTAGCACT 300
DB      304 ATGCACTCTGCTCTTTCTTTACACTCTTCTGAGGAAATTAATTCACCTTTAGCACT 363
QY      301 TCCCATCAACAATATTTTAAATTCATCTGCTGCTCAACAAGCTTTGCCAATG 360
DB      364 TCCCATCAACAATATTTTAAATTCATCTGCTGCTCAACAAGCTTTGCCAATG 423
QY      361 GTTTCCATCACTCTCTTGGCATTTGTTACCTGCGAGGTGTATAGCAGCAATTTGCCAA 420
DB      424 GTTTCCATCACTCTCTTGGCATTTGTTACCTGCGAGGTGTATAGCAGCAATTTGCCAA 483
QY      421 CTTCAATATGGAACCAAGTATGAAGTTCCACATTTGTTGATGTAAGTGAATTAACA 480
DB      484 CTTCAATATGGAACCAAGTATGAAGTTCCACATTTGTTGATGTAAGTGAATTAACA 543
QY      481 AGAAGCAGTTGGGCTTCTCACTTTCTTTTGTCTGTATGTCATGCAATTTTATGCTG 540
DB      544 AGAAGCAGTTGGGCTTCTCACTTTCTTTTGTCTGTATGTCATGCAATTTTATGCTG 603
QY      541 TCTTACCAATGAGGCGATCTTAACATATCAAGTGTCTAACTGGGCAATTCACAGGTC 600
DB      604 TCTTACCAATGAGGCGATCTTAACATATCAAGTGTCTAACTGGGCAATTCACAGGTC 663
QY      601 CAACAAATTAAGAAGTGTCTGATGACATGATGTTGGAAATGGAATTTATGTC 660
DB      664 CAACAAATTAAGAAGTGTCTGATGACATGATGTTGGAAATGGAATTTATGTC 723
QY      661 TCTCTGGGAATTTGGGATTTGCAATCTGCTCTGTGGCTGTGACATCTATTTCACTC 720
DB      724 TCTCTGGGAATTTGGGATTTGCAATCTGCTCTGTGGCTGTGACATCTATTTCACTC 783
QY      721 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATTTGT 780
DB      784 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATTTGT 843
QY      781 TCCCTTCTACTGGGACAAATACAGCAATTAATTTTGGCTGGAATTAAGTGAATTAAT 840
DB      844 TCCCTTCTACTGGGACAAATACAGCAATTAATTTTGGCTGGAATTAAGTGAATTAAT 903
QY      841 AAACAATTTGTATGTATACACTTCAACTTTATATAGTCTTTTCTTCCAAATTTGT 900
DB      904 AAACAATTTGTATGTATACACTTCAACTTTATATAGTCTTTTCTTCCAAATTTGT 963
QY      901 GTCTGATATTTAAAGCATACTATTCCTGCAATGCTTGAAGAAAGATTAAGAAATTT 960
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DB      964 GTCTGATATTTAAAGCATACTATTCCTGCAATGCTTGAAGAAAGATTAAGAAATTT 1023
QY      961 AGACATGTTGGGAAGACGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1017
DB      1024 AGACATGTTGGGAAGACGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1080
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RESULT 5

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US-10-856-109-1
; Sequence 1, Application US/10856109
; Publication No. US20040219591A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 511582001606
; CURRENT APPLICATION NUMBER: US/10/856,109
; PRIOR FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64)...(1083)
US-10-856-109-1
```

```
Query Match      100.0%; Score 1017; DB 8; Length 1193;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 ATGGAAGCAGAAAGACATCAACCAAGAACTTTGGAAATGAACCTTAGAGA 60
DB      64 ATGGAAGCAGAAAGACATCAACCAAGAACTTTGGAAATGAACCTTAGAGA 123
QY      61 AATTGGAAGAACCGATTATTGCAATAGACACCGGAGAACCCGACATGCTAAAAAG 120
DB      124 AATTGGAAGAACCGATTATTGCAATAGACACCGGAGAACCCGACATGCTAAAAAG 183
QY      121 CCTGCTCTTGGATTGGACACCAAGCCCATGCTGATGAATTTGACCTCCCTAGAA 180
DB      184 CCGTGTCTTTGATTTGACACCAAGCCCATGCTGATGAATTTGACCTCCCTAGAA 243
QY      181 CTTGACGACACACAGAACTCTTTCCACAGTGGCACTTGCCTAAATTAATAGCTGATT 240
DB      244 CTTGACGACACACAGAACTCTTTCCACAGTGGCACTTGCCTAAATTAATAGCTGATT 303
QY      241 ATGCACTCTGCTCTTTCTTTACACTCTTCTGAGGAAATTAATTCACCTTTAGCACT 300
DB      304 ATGCACTCTGCTCTTTCTTTACACTCTTCTGAGGAAATTAATTCACCTTTAGCACT 363
QY      301 TCCCATCAACAATATTTTAAATTCATCTGCTGATCAACAAAGCTTTGCCAATG 360
DB      364 TCCCATCAACAATATTTTAAATTCATCTGCTGATCAACAAAGCTTTGCCAATG 423
QY      361 GTTTCCATCACTCTCTTGGCATTTGTTACCTGCGAGGTGTATAGCAGCAATTTGCCAA 420
DB      424 GTTTCCATCACTCTCTTGGCATTTGTTACCTGCGAGGTGTATAGCAGCAATTTGCCAA 483
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Db 906 AACCAATTTGTAAGTATACCTCCAACTTTATGATAGCTGTTTCTTCCATTTGTT 965
QY 901 GTCCGATATATTTAAAGCATACTATTCCTGCCATCTTGAGAGAAAGATCTGAAGTT 960
Db 966 GTCCGATATATTTAAAGCATACTATTCCTGCCATCTTGAGAGAAAGATCTGAAGTT 1025
QY 961 AGACATGTTGGGAAAGAGCTCACCAGAAATTAACAAACCTGAGATATGTTTCCAGTTG 1017
Db 1026 AGACATGTTGGGAAAGAGCTCACCAGAAATTAACAAACCTGAGATATGTTTCCAGTTG 1082

RESULT 7

US-10-753-195-1
; Sequence 1, Application US/10753195
; Publication No. US2005004349A1
; GENERAL INFORMATION:
; APPLICANT: Agensys, Inc.
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas Saffran
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Steven Chappell Mitchell
; APPLICANT: Mary Paris
; APPLICANT: Aya Jakobovits
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 51158-20016-02
; CURRENT APPLICATION NUMBER: US/10/753,195
; PRIOR FILING DATE: 2004-01-06
; PRIOR APPLICATION NUMBER: US/60/165,044
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: WO 99/62941
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: PCT/US00/33040
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1193
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (64) ... (1191)
US-10-753-195-1

Query Match 100.0%; Score 1017; DB 8; Length 1193;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGAGAGAAAGACATCAACAACCAAGAACTTTGAAAAATGAAGCTTAGAGAG 60
Db 64 ATGGAAGAGAGAAAGACATCAACAACCAAGAACTTTGAAAAATGAAGCTTAGAGAG 123
QY 61 AATTGAGAAGAGACGATTATTTGCAATAAGACACGGAGAGACACGACATGCTAAAAAG 120
Db 124 AATTGAGAAGAGACGATTATTTGCAATAAGACACGGAGAGACACGACATGCTAAAAAG 183
QY 121 CCTGTCCTTTTGATTTGACCAAAAGCCCATGCTGATGAATTTGACTGCCCTTGAGAA 180
Db 184 CCTGTCCTTTTGATTTGACCAAAAGCCCATGCTGATGAATTTGACTGCCCTTGAGAA 243
QY 181 CTTACAGACACACAGGAACCTTTCAACAGATGACATGCGCAATTAATAGCTGCTATT 240
Db 244 CTTACAGACACACAGGAACCTTTCAACAGATGACATGCGCAATTAATAGCTGCTATT 303

QY 241 ATAGCATCTGACCTTTTCTTACACCTCTTGAGGGAGAAATTCACCCCTTAGCAACT 300
Db 304 ATAGCATCTGACCTTTTCTTACACCTCTTGAGGGAGAAATTCACCCCTTAGCAACT 363
QY 301 TCCCATCAACAATATTTTATTAATAATTCATCTCTGTCATCAACAAAGCTTTCCTCAATG 360
Db 364 TCCCATCAACAATATTTTATTAATAATTCATCTCTGTCATCAACAAAGCTTTCCTCAATG 423
QY 361 GTTTCATCACTCTCTTGAGCATTTGTTTACCTGCGAGGTGTGATAGCAGAAATGTGCCAA 420
Db 424 GTTTCATCACTCTCTTGAGCATTTGTTTACCTGCGAGGTGTGATAGCAGAAATGTGCCAA 483
QY 421 CTTGATATATGGAACCAAGTATTAAGAGTTTCACATTTGTTGATTAAGTGTGATTAACA 480
Db 484 CTTGATATATGGAACCAAGTATTAAGAGTTTCACATTTGTTGATTAAGTGTGATTAACA 543
QY 481 AGAAGACAGTTGGGCTTCTCAGTTTCTTTTTCCTGACTGACATGCAATTTATAGTCTG 540
Db 544 AGAAGACAGTTGGGCTTCTCAGTTTCTTTTTCCTGACTGACATGCAATTTATAGTCTG 603
QY 541 TCTTACCAATGAGGCGATCTCAAGATCAAGTTGCTTAACTGGGCTATTAACAAGGTC 600
Db 604 TCTTACCAATGAGGCGATCTCAAGATCAAGTTGCTTAACTGGGCTATTAACAAGGTC 663
QY 601 CAACAAATTAAGAAGATGCGTGAATGAGCATGTTTGAAGATGAGATTTATGTG 660
Db 664 CAACAAATTAAGAAGATGCGTGAATGAGCATGTTTGAAGATGAGATTTATGTG 723
QY 661 TCTCTGGAATTTGGGATTTGGCAATACCTGCTCTGTTGAGCTGTGACATCTATTCCATCT 720
Db 724 TCTCTGGAATTTGGGATTTGGCAATACCTGCTCTGTTGAGCTGTGACATCTATTCCATCT 783
QY 721 GTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAACCTGGAATTTGT 780
Db 784 GTGAGTGACTCTTTGACATGAGAGAAATTTCACTATATTCAGACCAACCTGGAATTTGT 843
QY 781 TCCCTTACCTGAGGACAAATCAAGCATTTGTTTGGCTGGAATTAAGTGTAGATATA 840
Db 844 TCCCTTACCTGAGGACAAATCAAGCATTTGTTTGGCTGGAATTAAGTGTAGATATA 903
QY 841 AAACAATTTGATGATATACACCTCCAACTTTTATGATAGCTGTTTTCCTTCCAAATTTGT 900
Db 904 AAACAATTTGATGATATACACCTCCAACTTTTATGATAGCTGTTTTCCTTCCAAATTTGT 963
QY 901 GTCCGATATTTAAAGCATACTATTCCTGCCATCTTGAGAGAAAGATCTGAAGATT 960
Db 964 GTCCGATATTTAAAGCATACTATTCCTGCCATCTTGAGAGAAAGATCTGAAGATT 1023
QY 961 AGACATGTTGGGAAAGAGCTCACCAGAAATTAACAAACCTGAGATATGTTTCCAGTTG 1017
Db 1024 AGACATGTTGGGAAAGAGCTCACCAGAAATTAACAAACCTGAGATATGTTTCCAGTTG 1080

RESULT 8

US-10-752-421-1
; Sequence 1, Application US/10752421
; Publication No. US20050063975A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 511582001612
; CURRENT APPLICATION NUMBER: US/10/752,421
; PRIOR FILING DATE: 2004-01-05
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01

PRIOR APPLICATION NUMBER: US 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: US 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ. ID NOS: 47
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (64)...(1083)
US-10-752-421-1

Query Match 100.0%; Score 1017; DB 9; Length 1193;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGGAAGCAGAAAGCATCACAAACCAAGAACTTTGAAATGAGCCTAGAGAGA 60
64 ATGGAAGCAGAAAGCATCACAAACCAAGAACTTTGAAATGAGCCTAGAGAGA 123
61 AATTAGAGAGACGATTATTGTCATAGAGACCGGAGAGACCAAGCATGCTAAAAAGA 120
124 AATTAGAGAGACGATTATTGTCATAGAGACCGGAGAGACCAAGCATGCTAAAAAGA 183
121 CCGTGGCTTTGATTTGGACCAAAAGCCCATGCTGATGATTTGATGCTGCTTGAGA 180
184 CCGTGGCTTTGATTTGGACCAAAAGCCCATGCTGATGATTTGATGCTGCTTGAGA 243
181 CTTGACACACACAGCAAGCACTTTCCACAGTGGCACTTGGCAATTAATAGCTGCTATT 240
244 CTTGACACACACAGCAAGCACTTTCCACAGTGGCACTTGGCAATTAATAGCTGCTATT 303
241 ATAGCATCTGCACTTTCTTTACACTCTTCTGAGGAGAAATTCACCTTTAGCAACT 300
304 ATAGCATCTGCACTTTCTTTACACTCTTCTGAGGAGAAATTCACCTTTAGCAACT 363
301 TCCCATCAACAAATTTTAAATTTTCAATCTCTGCTGCTCAACAAAGCTTGGCAATG 360
364 TCCCATCAACAAATTTTAAATTTTCAATCTCTGCTGCTCAACAAAGCTTGGCAATG 423
361 GTTTCATCATCTCTTGGCATGTTTACCTGCAAGTGTGATGATGATGATGATGATG 420
424 GTTTCATCATCTCTTGGCATGTTTACCTGCAAGTGTGATGATGATGATGATGATG 483
421 CTTCATATAGAAACCAAGTATGAAGTTCACATTTGTTGATGATGATGATGATGATG 480
484 CTTCATATAGAAACCAAGTATGAAGTTCACATTTGTTGATGATGATGATGATGATG 543
481 AGAAAGCAATTTGGGCTTCTCACTTTCTTTTGGCTGCTGATGATGATGATGATGATG 540
544 AGAAAGCAATTTGGGCTTCTCACTTTCTTTTGGCTGCTGATGATGATGATGATGATG 603
541 TCTTACCAATGAGGCGATCTCTACAGATCAAGTTTCTAACTGGGCAATATCAACAGGTC 600
604 TCTTACCAATGAGGCGATCTCTACAGATCAAGTTTCTAACTGGGCAATATCAACAGGTC 663
601 CAACAAATTAAGAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 660
664 CAACAAATTAAGAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 723
661 TCTTGGGCAATTTGGGCTTCTCACTTTCTTTTGGCTGCTGATGATGATGATGATGATG 720
724 TCTTGGGCAATTTGGGCTTCTCACTTTCTTTTGGCTGCTGATGATGATGATGATGATG 783
721 GTGAGTGAATCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 780
784 GTGAGTGAATCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 843
781 TCCCTTTACTGGGCAATTAACAGCATGATTTTGGCTGATGATGATGATGATGATGATG 840

DB 844 TCCCTTTACTGGGCAATTAACAGCATGATTTTGGCTGATGATGATGATGATGATGATG 903
QY 841 AACCAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 900
DB 904 AACCAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 963
QY 901 GTCCGATATTTTAAAGCATACTATTCTGCGCATGCTTGAGAGAAAGATGATGATGATG 960
DB 964 GTCCGATATTTTAAAGCATACTATTCTGCGCATGCTTGAGAGAAAGATGATGATGATG 1023
QY 961 AGACATGTTGGGAGACGTCACCAAAATTAACAAATGATGATGATGATGATGATGATG 1017
DB 1024 AGACATGTTGGGAGACGTCACCAAAATTAACAAATGATGATGATGATGATGATGATG 1080

RESULT 9
US-10-861-662-2
Sequence 2, Application US/10861662
Publication No. US20050086707A1
GENERAL INFORMATION:

APPLICANT: Jakobovits, Aya
APPLICANT: Etesam, Soudabeh
APPLICANT: Chailita-Eid, Pia M.
APPLICANT: Perez-Villar, Juan
APPLICANT: Meyrick Morrison, Karen Jane
APPLICANT: Jia, Xiao-Chi
APPLICANT: Faris, Mary
APPLICANT: Gudas, Jean
APPLICANT: Raitano, Arthur B.
TITLE OF INVENTION: Antibodies and Molecules Derived
FILE REFERENCE: 51158-20016.26
CURRENT APPLICATION NUMBER: US/10/861,662
CURRENT FILING DATE: 2004-06-04
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 10/010,667
PRIOR FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 10/011,095
PRIOR FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 10/236,878
PRIOR FILING DATE: 2002-09-06
PRIOR APPLICATION NUMBER: 09/455,486
PRIOR FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 103
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (66)...(1085)
US-10-861-662-2

Query Match 100.0%; Score 1017; DB 9; Length 1193;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGGAAGCAGAAAGCATCACAAACCAAGAACTTTGAAATGAGCCTAGAGAGA 60
66 ATGGAAGCAGAAAGCATCACAAACCAAGAACTTTGAAATGAGCCTAGAGAGA 125
61 AATTAGAGAGACGATTATTGTCATAGAGACCGGAGAGACCAAGCATGCTAAAAAGA 120
126 AATTAGAGAGACGATTATTGTCATAGAGACCGGAGAGACCAAGCATGCTAAAAAGA 185
121 CCGTGGCTTTGATTTGGACCAAAAGCCCATGCTGATGATTTGATGCTGCTTGAGA 180
186 CCGTGGCTTTGATTTGGACCAAAAGCCCATGCTGATGATTTGATGCTGCTTGAGA 245


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OY      181  CTTGAGCAGACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAAATAGCTGTAAT 240
        |||
Db      246  CTTGAGCAGACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAAATAGCTGTAAT 305
OY      241  ATAGCATCTGACTTTTCTTTTACCTCTTCTGAGGGAAGTAATCACCCTTTAGCACT 300
        |||
Db      306  ATAGCATCTGACTTTTCTTTTACCTCTTCTGAGGGAAGTAATCACCCTTTAGCACT 365
OY      301  TCCCATCAACAATATTTTAAATTCGAATCTGTCATCAACAAGTCTTGCCAAATG 360
        |||
Db      366  TCCCATCAACAATATTTTAAATTCGAATCTGTCATCAACAAGTCTTGCCAAATG 425
OY      361  GTTTCATCACTCTCTTGGCAATGTTTACCTGCGAAGTGTATAGCAATTTGTCGA 420
        |||
Db      426  GTTTCATCACTCTCTTGGCAATGTTTACCTGCGAAGTGTATAGCAATTTGTCGA 485
OY      421  CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTTGGATTAAGTATTA 480
        |||
Db      486  CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTTGGATTAAGTATTA 545
OY      481  AGAAGCAGTTGGGCTTCTAGTTCTTTTGTGCTGTAAGTATTAAGTATTAAGTCTG 540
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Db      546  AGAAGCAGTTGGGCTTCTAGTTCTTTTGTGCTGTAAGTATTAAGTATTAAGTCTG 605
OY      541  TCTTACCCCAATGAGCGATCTTACAGATTAACAAGTTGCTAACTGGGCAATATCA 600
        |||
Db      606  TCTTACCCCAATGAGCGATCTTACAGATTAACAAGTTGCTAACTGGGCAATATCA 665
OY      601  CAACAAATTAAGAAAGATGCTGAGATTAAGATTAAGTATTAAGTATTAAGTATG 660
        |||
Db      666  CAACAAATTAAGAAAGATGCTGAGATTAAGATTAAGTATTAAGTATTAAGTATG 725
OY      661  TCTCTGGGAATGTTGGGATTTGGCAATATGAGCTGTTGGTGTGATCTATTCATCT 720
        |||
Db      726  TCTCTGGGAATGTTGGGATTTGGCAATATGAGCTGTTGGTGTGATCTATTCATCT 785
OY      721  GTGAGTGACTCTTTGACATGAGAGAAATTCATATATTCAAGCAAGCTAGGAATGTT 780
        |||
Db      786  GTGAGTGACTCTTTGACATGAGAGAAATTCATATATTCAAGCAAGCTAGGAATGTT 845
OY      781  TCCCTTCTACTGGGCAATACAGCATTTGTTGCTGGAATTAAGTATTAAGTATTA 840
        |||
Db      846  TCCCTTCTACTGGGCAATACAGCATTTGTTGCTGGAATTAAGTATTAAGTATTA 905
OY      841  AAACAATTTGTATGATACCTCCAACTTTATGATAGCTGTTTCTTCCCAATTTGTT 900
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Db      906  AAACAATTTGTATGATACCTCCAACTTTATGATAGCTGTTTCTTCCCAATTTGTT 965
OY      901  GTCTGATATTTTAAAGCATATCTTCTGCAATGCTTGAAGAAATGTAAGTATTA 960
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Db      966  GTCTGATATTTTAAAGCATATCTTCTGCAATGCTTGAAGAAATGTAAGTATTA 1025
OY      961  AGACATGTTGGGAAGAGCTCAACCAAAATTAACAAAATGAGATGTTCCAGTTG 1017
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Db      1026  AGACATGTTGGGAAGAGCTCAACCAAAATTAACAAAATGAGATGTTCCAGTTG 1082

RESULT 10
US-09-759-143-878
; Sequence 878, Application US/09759143
; Patent No. US2002002248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Ronger, Gary R.
; APPLICANT: Ketter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
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; APPLICANT: Vedic, Thomas S.
; APPLICANT: Carter, Patrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: PaetsSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-878

Query Match      100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 76-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1  ATGGAAAGCAGAAAAAGACATCAAAACCAAGAAACTTTGAAAAATGAGCCTAGAGA 60
        |||
Db      66  ATGGAAAGCAGAAAAAGACATCAAAACCAAGAAACTTTGAAAAATGAGCCTAGAGA 125
OY      61  AATTTAAGAAAGAGATTAATTTGCATTAAGACACGGGAGAGACAGCATCTAAGAA 120
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Db      126  AATTTAAGAAAGAGATTAATTTGCATTAAGACACGGGAGAGACAGCATCTAAGAA 185
OY      121  CCTGTCTTTTGGCATTTTGCACCAACAGCCCATGTAATTTGATGCGCCCTTACAGA 180
        |||
Db      186  CCTGTCTTTTGGCATTTTGCACCAACAGCCCATGTAATTTGATGCGCCCTTACAGA 245
OY      181  CTTGAGCAGACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAAATAGCTGTAAT 240
        |||
Db      246  CTTGAGCAGACAGAGAACTCTTTCACAGTGGCACTTGCCAAATTAAATAGCTGTAAT 305
OY      241  ATAGCATCTGACTTTTCTTTTACCTCTTCTGAGGGAAGTAATCACCCTTTAGCACT 300
        |||
Db      306  ATAGCATCTGACTTTTCTTTTACCTCTTCTGAGGGAAGTAATCACCCTTTAGCACT 365
OY      301  TCCCATCAACAATATTTTAAATTCGAATCTGTCATCAACAAGTCTTGCCAAATG 360
        |||
Db      366  TCCCATCAACAATATTTTAAATTCGAATCTGTCATCAACAAGTCTTGCCAAATG 425
OY      361  GTTTCATCACTCTCTTGGCAATGTTTACCTGCGAAGTGTATAGCAATTTGTCGA 420
        |||
Db      426  GTTTCATCACTCTCTTGGCAATGTTTACCTGCGAAGTGTATAGCAATTTGTCGA 485
OY      421  CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTTGGATTAAGTATTA 480
        |||
Db      486  CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTTGGATTAAGTATTA 545
OY      481  AGAAGCAGTTGGGCTTCTAGTTCTTTTGTGCTGTAAGTATTAAGTATTAAGTCTG 540
        |||
Db      546  AGAAGCAGTTGGGCTTCTAGTTCTTTTGTGCTGTAAGTATTAAGTATTAAGTCTG 605
OY      541  TCTTACCCCAATGAGCGATCTTACAGATTAACAAGTTGCTAACTGGGCAATATCA 600
        |||
Db      606  TCTTACCCCAATGAGCGATCTTACAGATTAACAAGTTGCTAACTGGGCAATATCA 665
OY      601  CAACAAATTAAGAAAGATGCTGAGATTAAGATTAAGTATTAAGTATTAAGTATG 660
        |||
Db      666  CAACAAATTAAGAAAGATGCTGAGATTAAGATTAAGTATTAAGTATTAAGTATG 725
OY      661  TCTCTGGGAATGTTGGGATTTGGCAATATGAGCTGTTGGTGTGATCTATTCATCT 720
        |||
Db      726  TCTCTGGGAATGTTGGGATTTGGCAATATGAGCTGTTGGTGTGATCTATTCATCT 785
OY      721  GTGAGTGACTCTTTGACATGAGAGAAATTCATATATTCAAGCAAGCTAGGAATGTT 780
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Db 786 GTGAGTACTCTTTGACATGAGAGAAATTTCTACTATATTCAGACCAAGTATGGAATGTT 845
Qy 781 TCCCTTCTACTGGGACAAATACAGCATTTGTTTGGCTGGAATTAAGTATGATATA 840
Db 846 TCCCTTCTACTGGGACAAATACAGCATTTGTTTGGCTGGAATTAAGTATGATATA 905
Qy 841 AAACAAATTTGATGATATACCTTCGAACCTTTATGATAGTGTTCCTTCCAAATGTT 900
Db 906 AAACAAATTTGATGATATACCTTCGAACCTTTATGATAGTGTTCCTTCCAAATGTT 965
Qy 901 GTCTGATATTTAAAGACATCTATCTCTGATGCTTGGAGAGAAATCTGAATTT 960
Db 966 GTCTGATATTTAAAGACATCTATCTCTGATGCTTGGAGAGAAATCTGAATTT 1025
Qy 961 AGACATGTTGGAGAGAGCTCACCAGAAATTAACAACTGATATGTTCCAGTTG 1017
Db 1026 AGACATGTTGGAGAGAGCTCACCAGAAATTAACAACTGATATGTTCCAGTTG 1082

RESULT 11

US-09-780-669-878
Sequence 878, Application US/09780669
Patent No. US2002005197A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, David C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalo, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
APPLICANT: Hurai, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C24
CURRENT APPLICATION NUMBER: US/09/780,669
CURRENT FILING DATE: 2001-02-09
NUMBER OF SEQ ID NOS: 943
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-780-669-878

Query Match 100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGGAAGAGAGAAAGACATCAACAAACAGAAAGAACTTTGAAAATGAAGCTTAGAGAGA 60
Db 66 ATGGAAGAGAGAAAGACATCAACAAACAGAAAGAACTTTGAAAATGAAGCTTAGAGAGA 125
Qy 61 AATTGAGAGAGAGAGATTTTGTGATAGAGACAGGAGAGACAGCATGCTTAAAAAGA 120
Db 126 AATTGAGAGAGAGAGATTTTGTGATAGAGACAGGAGAGACAGCATGCTTAAAAAGA 185
Qy 121 CCGTGGCTTTTGATTTGACCAAGAGCCGATGCTGATGAATTTGACGCTCCCTTGAGAA 180
Db 186 CCGTGGCTTTTGATTTGACCAAGAGCCGATGCTGATGAATTTGACGCTCCCTTGAGAA 245

Qy 181 CTTAGACACACAGAGAACTCTTTCACAGTGGCACTGGCAATTTAAATAGCTGTAAT 240
Db 246 CTTAGACACACAGAGAACTCTTTCACAGTGGCACTGGCAATTTAAATAGCTGTAAT 305
Qy 241 ATAGCATCTGACTTTTCTTTACACTCTTCAGAGGAATTAATCACTTTAGCACT 300
Db 306 ATAGCATCTGACTTTTCTTTACACTCTTCAGAGGAATTAATCACTTTAGCACT 365
Qy 301 TCCCATCAACATATTTTAAATTTTCAATCTGATCAACAAAGCTTGGCAATG 360
Db 366 TCCCATCAACATATTTTAAATTTTCAATCTGATCAACAAAGCTTGGCAATG 425
Qy 361 GTTTCATCACTCTCTTGGCATTGTTTACCTGCAAGGTGTATAGAGCAATTTGCCA 420
Db 426 GTTTCATCACTCTCTTGGCATTGTTTACCTGCAAGGTGTATAGAGCAATTTGCCA 485
Qy 421 CTTCAATTAAGAGAACAGTATTAAGAACTTTCCCATTTGGTATTAAGTATTAACA 480
Db 486 CTTCAATTAAGAGAACAGTATTAAGAACTTTCCCATTTGGTATTAAGTATTAACA 545
Qy 481 AGAAGCAGTTGGGCTTCAGATTCTTTTGTCTGTACTGATGCAATTTTATAGTCTG 540
Db 546 AGAAGCAGTTGGGCTTCAGATTCTTTTGTCTGTACTGATGCAATTTTATAGTCTG 605
Qy 541 TCTTACCACATGAGGCGATCTTACAGATACAAAGTTCTAACTGGGCATATCAACAGTCT 600
Db 606 TCTTACCACATGAGGCGATCTTACAGATACAAAGTTCTAACTGGGCATATCAACAGTCT 665
Qy 601 CAACAAATTAAGAGAAATGCTGATTTGAGCATGATGTTTGGAGAAATGAGATTTATGTC 660
Db 666 CAACAAATTAAGAGAAATGCTGATTTGAGCATGATGTTTGGAGAAATGAGATTTATGTC 725
Qy 661 TCTTGGAGAAATGTTGGGATTTGGCAATGCTGCTGTGCTGTGATCATTTATTCATCT 720
Db 726 TCTTGGAGAAATGTTGGGATTTGGCAATGCTGCTGTGCTGTGATCATTTATTCATCT 785
Qy 721 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 780
Db 786 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 845
Qy 781 TCCCTTCTACTGGGACAAATACAGCATTTGTTTGGCTGGAATTAAGTATGATATA 840
Db 846 TCCCTTCTACTGGGACAAATACAGCATTTGTTTGGCTGGAATTAAGTATGATATA 905
Qy 841 AAACAAATTTGATGATATACCTTCGAACCTTTATGATAGTGTTCCTTCCAAATGTT 900
Db 906 AAACAAATTTGATGATATACCTTCGAACCTTTATGATAGTGTTCCTTCCAAATGTT 965
Qy 901 GTCTGATATTTAAAGACATCTATCTCTGATGCTTGGAGAGAAATCTGAATTT 960
Db 966 GTCTGATATTTAAAGACATCTATCTCTGATGCTTGGAGAGAAATCTGAATTT 1025
Qy 961 AGACATGTTGGAGAGAGCTCACCAGAAATTAACAACTGATATGTTCCAGTTG 1017
Db 1026 AGACATGTTGGAGAGAGCTCACCAGAAATTAACAACTGATATGTTCCAGTTG 1082

RESULT 12

US-09-822-827-878
Sequence 878, Application US/09822827
Patent No. US20020081680A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.534C1
CURRENT APPLICATION NUMBER: US/09/822,827
CURRENT FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 982
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA

ORGANISM: Homo sapiens
US-09-822-878

Query Match 100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 1026 AGACATGTTGGGAAGCGTCACCAAAATTAACAACGATGATGTCACAGTTG 1082

QY 1 ATGGAAGCAGAAAAGACATCAACAAAGAACTTTGGAAAATGAAGCTTAGAGAGA 60
DB 66 ATGGAAGCAGAAAAGACATCAACAAAGAACTTTGGAAAATGAAGCTTAGAGAGA 125
QY 61 AATTAGAAGAGAGATATTGCACTAAGAGACAGGGAGAGACAGCATGCTAAAGAGA 120
DB 126 AATTAGAAGAGAGATATTGCACTAAGAGACAGGGAGAGACAGCATGCTAAGAGA 185
QY 121 CCTGCTCTTTGCACTTTGCAACCAAGCCATGCTGATGAAATTTGACCTCCCTAGAA 180
DB 186 CCTGCTCTTTGCACTTTGCAACCAAGCCATGCTGATGAAATTTGACCTCCCTAGAA 245
QY 181 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTCCCAATTTAAATAGCTGTA 240
DB 246 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTCCCAATTTAAATAGCTGTA 305
QY 241 ATAGATCTCTGATCTTTCTTTACACTCTTCTGAGGAGAGTAATTACCCCTTAGCACT 300
DB 306 ATAGATCTCTGATCTTTCTTTACACTCTTCTGAGGAGAGTAATTACCCCTTAGCACT 365
QY 301 TCCCATCAACAATATTTTATAAATTCATCTGCTGATGATCAACAAGCTTGGCAATG 360
DB 366 TCCCATCAACAATATTTTATAAATTCATCTGCTGATGATCAACAAGCTTGGCAATG 425
QY 361 GTTTCATCACTCTCTTGGCATTGGTTTACCTGCCAGGAGTGAATACACCAATGGCCAA 420
DB 426 GTTTCATCACTCTCTTGGCATTGGTTTACCTGCCAGGAGTGAATACACCAATGGCCAA 485
QY 421 CTTCAATAGGAACCAAGTATAAGAGAGTTTCCACATGGTGGATTAAGATGTTAACA 480
DB 486 CTTCAATAGGAACCAAGTATAAGAGAGTTTCCACATGGTGGATTAAGATGTTAACA 545
QY 481 AGAAGCAGTTGGGCTCTCACTTTCTTTTGTCTGTACTGATGCAATTTAATGCTG 540
DB 546 AGAAGCAGTTGGGCTCTCACTTTCTTTTGTCTGTACTGATGCAATTTAATGCTG 605
QY 541 TCTTACCCATGAGCGGATCTTCAAGATACAGATACAGATGCTTAACTGGGCAATCAACGAGTC 600
DB 606 TCTTACCCATGAGCGGATCTTCAAGATACAGATACAGATGCTTAACTGGGCAATCAACGAGTC 665
QY 601 CAACAAAATTAAGAGAGATGCTGGATTTGAGCATGATTTGGAGATTTGAGATTTG 660
DB 666 CAACAAAATTAAGAGAGATGCTGGATTTGAGCATGATTTGGAGATTTGAGATTTG 725
QY 661 TCTCTGGGAATTTGGGATTTGGCAATGCTGCTGTTGGCTGTGACATCTAATTCATCT 720
DB 726 TCTCTGGGAATTTGGGATTTGGCAATGCTGCTGTTGGCTGTGACATCTAATTCATCT 785
QY 721 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTAATTTCAAGCAAGCTAGGAATTTG 780
DB 786 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTAATTTCAAGCAAGCTAGGAATTTG 845
QY 781 TCCCTCTCTGCTGGGCAATPACAGGATTTGCTGCTGGAATTAAGATAGATATA 840
DB 846 TCCCTCTCTGCTGGGCAATPACAGGATTTGCTGCTGGAATTAAGATAGATATA 905
QY 841 AAACAATTTGATGATACACCTCCAACTTTTATGATAGCTGTTTCTTCCAAATGTT 900
DB 906 AAACAATTTGATGATACACCTCCAACTTTTATGATAGCTGTTTCTTCCAAATGTT 965
QY 901 GTTCTGATATTTAAAGCATATCTTCTGCTGCTTGGAGAAAGATATGAAATTT 960
DB 966 GTTCTGATATTTAAAGCATATCTTCTGCTGCTTGGAGAAAGATATGAAATTT 1025
QY 961 AGACATGTTGGGAAGCGTCACCAAAATTAACAACGATGATGTCACAGTTG 1017

RESULT 13
US-09-895-793-878
Sequence 878, Application US/09895793
Publication No. US20020192763A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Devin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugui
APPLICANT: Kalos, Michael D.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedrick, Thomas S.
APPLICANT: Carter, Darick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals de Bassols, Carlota
APPLICANT: Foy, Teresa
APPLICANT: Fanger, Gary R.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 21021.534C2
CURRENT FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 982
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-895-793-878

Query Match 100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGCAGAAAAGACATCAACAAAGAACTTTGGAAAATGAAGCTTAGAGAGA 60
DB 66 ATGGAAGCAGAAAAGACATCAACAAAGAACTTTGGAAAATGAAGCTTAGAGAGA 125
QY 61 AATTAGAAGAGAGATATTGCACTAAGAGACAGGGAGAGACAGCATGCTAAGAGA 120
DB 126 AATTAGAAGAGAGATATTGCACTAAGAGACAGGGAGAGACAGCATGCTAAGAGA 185
QY 121 CCTGCTCTTTGCACTTTGCAACCAAGCCATGCTGATGAAATTTGACCTCCCTAGAA 180
DB 186 CCTGCTCTTTGCACTTTGCAACCAAGCCATGCTGATGAAATTTGACCTCCCTAGAA 245
QY 181 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTCCCAATTTAAATAGCTGTA 240
DB 246 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTCCCAATTTAAATAGCTGTA 305
QY 241 ATAGATCTCTGATCTTTCTTTACACTCTTCTGAGGAGAGTAATTACCCCTTAGCACT 300
DB 306 ATAGATCTCTGATCTTTCTTTACACTCTTCTGAGGAGAGTAATTACCCCTTAGCACT 365
QY 301 TCCCATCAACAATATTTTATAAATTCATCTGCTGATGATCAACAAGCTTGGCAATG 360
DB 366 TCCCATCAACAATATTTTATAAATTCATCTGCTGATGATCAACAAGCTTGGCAATG 425
QY 361 GTTTCATCACTCTCTTGGCATTGGTTTACCTGCCAGGAGTGAATACACCAATGGCCAA 420

QY 1 ATGGAAGCAGAAAAGACATCAACAAAGAACTTTGGAAAATGAAGCTTAGAGAGA 60
DB 66 ATGGAAGCAGAAAAGACATCAACAAAGAACTTTGGAAAATGAAGCTTAGAGAGA 125
QY 61 AATTAGAAGAGAGATATTGCACTAAGAGACAGGGAGAGACAGCATGCTAAGAGA 120
DB 126 AATTAGAAGAGAGATATTGCACTAAGAGACAGGGAGAGACAGCATGCTAAGAGA 185
QY 121 CCTGCTCTTTGCACTTTGCAACCAAGCCATGCTGATGAAATTTGACCTCCCTAGAA 180
DB 186 CCTGCTCTTTGCACTTTGCAACCAAGCCATGCTGATGAAATTTGACCTCCCTAGAA 245
QY 181 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTCCCAATTTAAATAGCTGTA 240
DB 246 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTCCCAATTTAAATAGCTGTA 305
QY 241 ATAGATCTCTGATCTTTCTTTACACTCTTCTGAGGAGAGTAATTACCCCTTAGCACT 300
DB 306 ATAGATCTCTGATCTTTCTTTACACTCTTCTGAGGAGAGTAATTACCCCTTAGCACT 365
QY 301 TCCCATCAACAATATTTTATAAATTCATCTGCTGATGATCAACAAGCTTGGCAATG 360
DB 366 TCCCATCAACAATATTTTATAAATTCATCTGCTGATGATCAACAAGCTTGGCAATG 425
QY 361 GTTTCATCACTCTCTTGGCATTGGTTTACCTGCCAGGAGTGAATACACCAATGGCCAA 420

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Db      426 GTTTCATCACTCTCTTGCGATTGGTTTACCTGCCAGTGTGATAGACGAATTGTCMA 485
Qy      421 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATGTTGATAGATGATTAACA 480
Db      486 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATGTTGATAGATGATTAACA 545
Qy      481 AGAAGACGTTGGGCTTCTCAAGTTCTTTTGTGCTGCTGATGCAATTTATAGTCTG 540
Db      546 AGAAGACGTTGGGCTTCTCAAGTTCTTTTGTGCTGATGCAATTTATAGTCTG 605
Qy      541 TCTTACCAGTGGGCAATCCTACAGATACAGATGTTAACTGGGATTCACAGAGTC 600
Db      606 TCTTACCAGTGGGCAATCCTACAGATACAGATGTTAACTGGGATTCACAGAGTC 665
Qy      601 CAACAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGAGATTTATAGT 660
Db      666 CAACAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGAGATTTATAGT 725
Qy      661 TCTCTGGGAAATGTTGGGATTTGGCAATACGCTCTGTTGGCTGATCATCTATTCATCT 720
Db      726 TCTCTGGGAAATGTTGGGATTTGGCAATACGCTCTGTTGGCTGATCATCTATTCATCT 785
Qy      721 GTGAGTGAATCTTTGATGATGAGAGAAATTTCACTATTTACAGACGAGCTAGAGATTTGTT 780
Db      786 GTGAGTGAATCTTTGATGATGAGAGAAATTTCACTATTTACAGACGAGCTAGAGATTTGTT 845
Qy      781 TCCCTTCTACTGGGCAATATACAGCATGATTTTGGCTGAGATTAAGTATGATATAT 840
Db      846 TCCCTTCTACTGGGCAATATACAGCATGATTTTGGCTGAGATTAAGTATGATATAT 905
Qy      841 AAACAAATTTGATGATATACACCTCCAACTTTTATGATAGCTGTTTCTTCCATTTGTT 900
Db      906 AAACAAATTTGATGATATACACCTCCAACTTTTATGATAGCTGTTTCTTCCATTTGTT 965
Qy      901 GTCCGATATTTTAAAGCATATCTTCTGCGCATGCTTGAAGAGAAAGATCTGAAGATT 960
Db      966 GTCCGATATTTTAAAGCATATCTTCTGCGCATGCTTGAAGAGAAAGATCTGAAGATT 1025
Qy      961 AGACATGATTTGGGAGACGTCACCAAAATTAACAAAAGTATGTTCCAGTTG 1017
Db      1026 AGACATGATTTGGGAGACGTCACCAAAATTAACAAAAGTATGTTCCAGTTG 1082

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RESULT 14
US-09-895-814-878
; Sequence 878, Application US/09895814
; Publication No. US20020193296A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, David C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stoik, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Dartrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aljun
; APPLICANT: Skelky, Yashir A.W.
; APPLICANT: Hepner, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C26

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; CURRENT APPLICATION NUMBER: US/09/895,814
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 990
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-895-814-878

Query Match      100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 7e-277;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGGAAGACAGAAAGACATCAACCAAGAACTTTGGAAATGAAGCTTAGAGAA 60
Db      66 ATGGAAGACAGAAAGACATCAACCAAGAACTTTGGAAATGAAGCTTAGAGAA 125
Qy      61 AATTAGAAAGACGATTAATTTGATTAAGACACGGGAGAGACGATGCTAAAAAGA 120
Db      126 AATTAGAAAGACGATTAATTTGATTAAGACACGGGAGAGACGATGCTAAAAAGA 185
Qy      121 CCTGTCTTTTGCATTTGACACCAACAGCCCATGCTGATGAATTTGACTGCCCTCAGAA 180
Db      186 CCTGTCTTTTGCATTTGACACCAACAGCCCATGCTGATGAATTTGACTGCCCTCAGAA 245
Qy      181 CTTGACACACAGGAACTTTTCAGAGTGGCACTTGGCAATTAATAGCTGATTT 240
Db      246 CTTGACACACAGGAACTTTTCAGAGTGGCACTTGGCAATTAATAGCTGATTT 305
Qy      241 ATAGCATCTGACATTTTCTTACACTCTTCTGAGGAAAGTAAATTCACCTTTAGCACT 300
Db      306 ATAGCATCTGACATTTTCTTACACTCTTCTGAGGAAAGTAAATTCACCTTTAGCACT 365
Qy      301 TCCCATCAACAAATTTTATTAATAATTCGAATCTGCTGATCAACAACTTTGCCATG 360
Db      366 TCCCATCAACAAATTTTATTAATAATTCGAATCTGCTGATCAACAACTTTGCCATG 425
Qy      361 GTTTCATGACCTCTGCGCATGTTGTTTACCTGCGCAGAGTGAATGCGCAATTTGCCAA 420
Db      426 GTTTCATGACCTCTGCGCATGTTGTTTACCTGCGCAGAGTGAATGCGCAATTTGCCAA 485
Qy      421 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATGTTGATAGATGATTAACA 480
Db      486 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATGTTGATAGATGATTAACA 545
Qy      481 AGAAGACGTTGGGCTTCTCAAGTTCTTTTGTGCTGCTGATGCAATTTATAGTCTG 540
Db      546 AGAAGACGTTGGGCTTCTCAAGTTCTTTTGTGCTGCTGATGCAATTTATAGTCTG 605
Qy      541 TCTTACCAGTGGGCAATCCTACAGATACAGATGTTAACTGGGATTCACAGAGTC 600
Db      606 TCTTACCAGTGGGCAATCCTACAGATACAGATGTTAACTGGGATTCACAGAGTC 665
Qy      601 CAACAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGAGATTTATAGT 660
Db      666 CAACAAATTAAGAAGATGCTGATGAGATGATTTGGAGATGAGATTTATAGT 725
Qy      661 TCTCTGGGAAATGTTGGGATTTGGCAATACGCTCTGTTGGCTGATCATCTATTCATCT 720
Db      726 TCTCTGGGAAATGTTGGGATTTGGCAATACGCTCTGTTGGCTGATCATCTATTCATCT 785
Qy      721 GTGAGTGAATCTTTGATGATGAGAGAAATTTCACTATTTACAGACGAGCTAGAGATTTGTT 780
Db      786 GTGAGTGAATCTTTGATGATGAGAGAAATTTCACTATTTACAGACGAGCTAGAGATTTGTT 845
Qy      781 TCCCTTCTACTGGGCAATATACAGCATGATTTTGGGATGAGATTTATAGTATTA 840
Db      846 TCCCTTCTACTGGGCAATATACAGCATGATTTTGGGATGAGATTTATAGTATTA 905
Qy      841 AAACAAATTTGATGATATACACCTCCAACTTTTATGATAGCTGTTTCTTCCATTTGTT 900
Db      906 AAACAAATTTGATGATATACACCTCCAACTTTTATGATAGCTGTTTCTTCCATTTGTT 965

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 4, 2005, 20:43:36 ; Search time 202.756 Seconds
(without alignments)
8916.024 Million cell updates/sec

Title: US-10-750-262-1_COPY_66_1082

Perfect score: 1017
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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
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9: /cgn2_6/ptodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1017	100.0	1193	US-09-455-486-1	Sequence 1, Appli
2	1017	100.0	1195	US-09-323-873A-1	Sequence 1, Appli
3	1017	100.0	1195	US-09-685-166A-878	Sequence 878, App
4	1017	100.0	1195	US-09-679-426-878	Sequence 878, App
5	1017	100.0	1195	US-09-759-143-878	Sequence 878, App
6	1017	100.0	1195	US-10-010-667A-1	Sequence 1, Appli
7	1017	100.0	1195	US-10-012-896-878	Sequence 878, App
8	1015.4	99.8	1147	US-09-949-016-2686	Sequence 2686, Ap
9	760.6	74.8	3627	US-09-323-873A-6	Sequence 6, Appli
10	760.6	74.8	3627	US-09-455-486-4	Sequence 4, Appli
11	760.6	74.8	3627	US-10-010-667A-6	Sequence 6, Appli
12	516	50.7	592	US-09-439-313-342	Sequence 342, App
13	516	50.7	592	US-09-352-616A-342	Sequence 342, App
14	516	50.7	592	US-09-636-215-342	Sequence 342, App
15	516	50.7	592	US-09-685-166A-342	Sequence 342, App
16	516	50.7	592	US-09-679-426-342	Sequence 342, App
17	516	50.7	592	US-09-759-143-342	Sequence 342, App
18	516	50.7	592	US-09-651-226-342	Sequence 342, App
19	516	50.7	592	US-09-657-279-342	Sequence 342, App
20	516	50.7	592	US-10-012-896-342	Sequence 342, App
21	515.6	50.7	9073	US-09-949-016-14428	Sequence 14428, A
22	266.6	26.2	2453	US-09-455-486-5	Sequence 5, Appli
23	266.6	26.2	2469	US-10-104-047-1185	Sequence 1185, Ap
24	265	26.1	1403	US-10-012-896-995	Sequence 995, App

25	256.8	25.3	455	3	US-09-621-976-9264	Sequence 9264, Ap
26	229.6	22.6	848	3	US-10-012-896-993	Sequence 993, App
27	221.4	21.8	519	3	US-10-010-667A-7	Sequence 7, Appli
28	221.4	21.8	521	3	US-09-323-873A-7	Sequence 7, Appli
29	212.8	20.9	2714	3	US-09-562-930-5	Sequence 5, Appli
30	212.8	20.9	3884	3	US-09-562-930-10	Sequence 10, Appli
31	187.4	18.4	4429	3	US-09-455-486-7	Sequence 7, Appli
32	184.8	18.2	1213	3	US-09-083-521-3	Sequence 3, Appli
33	171	16.8	1886	3	US-09-562-930-1	Sequence 1, Appli
34	166.6	16.4	1203	3	US-09-544-618-6	Sequence 6, Appli
35	162.4	16.0	366	3	US-09-030-607-215	Sequence 215, App
36	162.4	16.0	366	3	US-09-439-313-215	Sequence 215, App
37	162.4	16.0	366	3	US-09-352-616A-215	Sequence 215, App
38	162.4	16.0	366	3	US-09-232-149A-215	Sequence 215, App
39	162.4	16.0	366	3	US-09-159-812-215	Sequence 215, App
40	162.4	16.0	366	3	US-09-636-215-215	Sequence 215, App
41	162.4	16.0	366	3	US-09-685-166A-215	Sequence 215, App
42	162.4	16.0	366	3	US-09-115-453-215	Sequence 215, App
43	162.4	16.0	366	3	US-09-688-489-215	Sequence 215, App
44	162.4	16.0	366	3	US-09-679-426-215	Sequence 215, App
45	162.4	16.0	366	3	US-09-759-143-215	Sequence 215, App

ALIGNMENTS

RESULT 1
US-09-455-486-1
Sequence 1, Application US/09455486
Patent No. 6833438
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas C. Seifman
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
FILE REFERENCE: 129.17-US-11
CURRENT APPLICATION NUMBER: US/09/455,486
CURRENT FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1193
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (64)...(1083)
US-09-455-486-1
Query Match 100.0%; Score 1017; DB 3; Length 1193;
Best Local Similarity 100.0%; Pred. No. 2,5e-304;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGGAAGCGCAAAAGCATCAACAAAGAACTTTGGAAAAATGAAGCCTTAGAGA 60
DB ATGGAAGCGCAAAAGCATCAACAAAGAACTTTGGAAAAATGAAGCCTTAGAGA 123
QY 61 AATTAGAGAGAGCATTTATTTGTCATPAGAGACGCGGAGAGACACAGATGCTAAAGA 120
DB AATTAGAGAGAGCATTTATTTGTCATPAGAGACGCGGAGAGACACAGATGCTAAAGA 183
QY 121 CTTGTGCTTTTGCAATTTGCAACAAACAGCCATGCTGATGAATTTGACTGCTTCAGAA 180
DB CTTGTGCTTTTGCAATTTGCAACAAACAGCCATGCTGATGAATTTGACTGCTTCAGAA 243
QY 181 CTTGAGAGACACAGGAACCTTTCCACATTTGCACTTTGCAATTAATAAGCGCATTT 240
DB CTTGAGAGACACAGGAACCTTTCCACATTTGCACTTTGCAATTAATAAGCGCATTT 303

QY 241 ATAGCATCTGGACTTTCTTTACACTCTCTGAGGAGAAATTCACCCCTTAGCACT 300
| | | | |
Db 304 ATAGCATCTGACTTTCTTTACACTCTCTGAGGAGAAATTCACCCCTTAGCACT 363
| | | | |
QY 301 TCCCATCAACAATTTTAAATTCGAATCTGCTCATCAACAAAGCTTGGCAATG 360
| | | | |
Db 364 TCCCATCAACAATTTTAAATTCGAATCTGCTCATCAACAAAGCTTGGCAATG 423
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QY 361 GTTTCATCACTCTCTTGGAGTTGTTTACCTGACAGTGTGATAGAGCAATTTGCCA 420
| | | | |
Db 424 GTTTCATCACTCTCTTGGAGTTGTTTACCTGACAGTGTGATAGAGCAATTTGCCA 483
| | | | |
QY 421 CTTCATTAATGGAACAAGTAAGAAGTTTCAACATTTGTTGATTAAGATTTTACA 480
| | | | |
Db 484 CTTCATTAATGGAACAAGTAAGAAGTTTCAACATTTGTTGATTAAGATTTTACA 543
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QY 481 AGAAGCAGTTTGGGCTTCTCAAGTTCTTTTGTCTGTAATGCAATTAATGCTG 540
| | | | |
Db 544 AGAAGCAGTTTGGGCTTCTCAAGTTCTTTTGTCTGTAATGCAATTAATGCTG 603
| | | | |
QY 541 TCTTACCCAAATGAGGAGTCTTCAAGTATACAGTTGCTAACTGGGCAATCAACAGTCT 600
| | | | |
Db 604 TCTTACCCAAATGAGGAGTCTTCAAGTATACAGTTGCTAACTGGGCAATCAACAGTCT 663
| | | | |
QY 601 CAACAAATTAAGAAGATGCTGAGATTGAGCATGATTTGAGAAATGAGATTTATGTG 660
| | | | |
Db 664 CAACAAATTAAGAAGATGCTGAGATTGAGCATGATTTGAGAAATGAGATTTATGTG 723
| | | | |
QY 661 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGATCTATTTCCATCT 720
| | | | |
Db 724 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGATCTATTTCCATCT 783
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QY 721 GTGAGTGAATCTTTGATGAGAGAAATTCACATTAATTCAGAGCAAGCTAAGAAATTTGT 780
| | | | |
Db 784 GTGAGTGAATCTTTGATGAGAGAAATTCACATTAATTCAGAGCAAGCTAAGAAATTTGT 843
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QY 781 TCCCTTCTACTGGGCAACAATACAGCATTTGATTTTGGCTGGAATTAAGATAGATA 840
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Db 844 TCCCTTCTACTGGGCAACAATACAGCATTTGATTTTGGCTGGAATTAAGATAGATA 903
| | | | |
QY 841 AAACAATTTGTATGTATACACTCCAACTTTTATGATAGCTGTTTCTTCCAAATTTT 900
| | | | |
Db 904 AAACAATTTGTATGTATACACTCCAACTTTTATGATAGCTGTTTCTTCCAAATTTT 963
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QY 901 GTCCGTATTTTAAAGCAATCTATCTCCGCAATGCTTGAAGAAAGATCTGAAGATT 960
| | | | |
Db 964 GTCCGTATTTTAAAGCAATCTATCTCCGCAATGCTTGAAGAAAGATCTGAAGATT 1023
| | | | |
QY 961 AGACATGTTGGGAGACGTCAACAAATTAACAAAATGAGATATGTTCCAGTTG 1017
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Db 1024 AGACATGTTGGGAGACGTCAACAAATTAACAAAATGAGATATGTTCCAGTTG 1080
| | | | |
RESULT 2
US-09-323-873A-1
; Sequence 1, Application US/09323873A
; Patent No. 6328503
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Kahan Leong
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Saffran
; APPLICANT: Steve Chappell Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 129,16US02
; CURRENT APPLICATION NUMBER: US/09/323,873A
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183

; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-323-873A-1
Query Match 100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred No.2.5e-304;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGGAAGCAGAAAGACATCAACAAACAAAGAACTTTGGAAATGAAGCTTAGAGA 60
| | | | |
Db 66 ATGGAAGCAGAAAGACATCAACAAACAAAGAACTTTGGAAATGAAGCTTAGAGA 125
| | | | |
QY 61 AATTAGAAGAGCATTATTGCTAAGAGACACGGAGAGACACGACTTCTAAAGA 120
| | | | |
Db 126 AATTAGAAGAGCATTATTGCTAAGAGACACGGAGAGACACGACTTCTAAAGA 185
| | | | |
QY 121 CCTGTCCTTTGATTTGACCAACAGCCCATGCTGAATTTGACTGCCCTTAGAA 180
| | | | |
Db 186 CCTGTCCTTTGATTTGACCAACAGCCCATGCTGAATTTGACTGCCCTTAGAA 245
| | | | |
QY 181 CTTCAGACACACAGGACCTTTCCACAGTGGCACTTCCCAATTAATAGCTGCTATT 240
| | | | |
Db 246 CTTCAGACACACAGGACCTTTCCACAGTGGCACTTCCCAATTAATAGCTGCTATT 305
| | | | |
QY 241 ATAGCATCTGACTTTCTTTACACTCTCTTGAAGGAATTAATCACTTTAGCACT 300
| | | | |
Db 306 ATAGCATCTGACTTTCTTTACACTCTCTTGAAGGAATTAATCACTTTAGCACT 365
| | | | |
QY 301 TCCCATCAACAATTTTAAATTCGAATCTGCTGATCAACAAAGCTTGGCAATG 360
| | | | |
Db 366 TCCCATCAACAATTTTAAATTCGAATCTGCTGATCAACAAAGCTTGGCAATG 425
| | | | |
QY 361 GTTTCATCACTCTCTTGGCATTGTTTACCTGCGACAGTGTATAGCAACAAATTTGCCA 420
| | | | |
Db 426 GTTTCATCACTCTCTTGGCATTGTTTACCTGCGACAGTGTATAGCAACAAATTTGCCA 485
| | | | |
QY 421 CTTCATTAATGGAACAAGTAAGAAGTTTCAACATTTGTTGATTAAGATTTTACA 480
| | | | |
Db 486 CTTCATTAATGGAACAAGTAAGAAGTTTCAACATTTGTTGATTAAGATTTTACA 545
| | | | |
QY 481 AGAAGCAATTTGGGCTTCTCAAGTTCTTTTGTCTGTAATGCAATTAATGCTG 540
| | | | |
Db 546 AGAAGCAATTTGGGCTTCTCAAGTTCTTTTGTCTGTAATGCAATTAATGCTG 605
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QY 541 TCTTACCCAAATGAGGAGTCTTACAGATCAAGTTGCTAACTGGGCAATCAACAGTCT 600
| | | | |
Db 606 TCTTACCCAAATGAGGAGTCTTACAGATCAAGTTGCTAACTGGGCAATCAACAGTCT 665
| | | | |
QY 601 CAACAAATTAAGAAGATGCTGATTTGAGCATGATTTTGAAGAAATGAAGATTATGTG 660
| | | | |
Db 666 CAACAAATTAAGAAGATGCTGATTTGAGCATGATTTTGAAGAAATGAAGATTATGTG 725
| | | | |
QY 661 TCTCTGGGAATTTGGGATTTGGCAATCTGCTGTTGGCTGTGACATCTATTCATCT 720
| | | | |
Db 726 TCTCTGGGAATTTGGGATTTGGCAATCTGCTGTTGGCTGTGACATCTATTCATCT 785
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QY 721 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTAATTCAGAGCAAGCTAAGAAATTTGT 780
| | | | |
Db 786 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTAATTCAGAGCAAGCTAAGAAATTTGT 845
| | | | |
QY 781 TCCCTTCTACTGGGCAACAATACAGCATTTTGTCTGGAATTAAGATTAAGATA 840
| | | | |
Db 846 TCCCTTCTACTGGGCAACAATACAGCATTTTGTCTGGAATTAAGATTAAGATA 905
| | | | |
QY 841 AAACAATTTGTATGTATACACTCCAACTTTTATGATAGCTGTTTCTTCCAAATTTT 900
| | | | |
Db 906 AAACAATTTGTATGTATACACTCCAACTTTTATGATAGCTGTTTCTTCCAAATTTT 965
| | | | |

QY GTCCGATATTTTAAAAGATACATCTCTCGCATCTTGAGAGAAAGATCTGAAGTT 960
 Db GTCCGATATTTTAAAAGATACATCTCTCGCATCTTGAGAGAAAGATCTGAAGTT 1026
 QY AGACATGGTGTGGGAAGACGTACACCAAAATTAACAAATGAGATATGTTCCCAAGTT 1017
 Db AGACATGGTGTGGGAAGACGTACACCAAAATTAACAAATGAGATATGTTCCCAAGTT 1082

RESULT 3

```

Sequence 678, Application US/09685166A
Patent No. 6630305
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, David C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuguí
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darlick
APPLICANT: Li, Samuel
APPLICANT: Wang, Ajun
APPLICANT: Skeiky, Yassir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C21
CURRENT APPLICATION NUMBER: US/09/685,166A
CURRENT FILING DATE: 2000-10-10
NUMBER OF SEQ ID NOS: 898
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-685-166A-878

```

Query Match	100.0%	Score 1017;	DB 3;	Length 1195;
Best Local Similarity	100.0%	Pred. No. 2,56-304;		
Matches 1017;	Conservative	0;	Mismatches 0;	Indels 0; Gaps 0;
QY	1	ATGAAAGCAGAAAAGACATCA	CAAAACCAAGAAACTTTGGAAAATGAAGCTTAGAGA	60
Db	66	ATGAAAGCAGAAAAGACATCA	CAAAACCAAGAAACTTTGGAAAATGAAGCTTAGAGA	125
QY	61	AATTTAGAAGAAAGATTTATTTGGATTAAGACA	ACGGAGAGACACAGATGCTAAAAAAA	120
Db	126	AATTTAGAAGAAAGATTTATTTGGATTAAGACA	CAGGAGAGACACAGATGCTAAAAAAA	185
QY	121	CCTGGCTTTTGGCATTTTGACCA	CAAAACAGCCCATCTGTGATGATTTGAC	CTGCCCTTCAGAA 180
Db	186	CCTGGCTTTTGGCATTTTGACCA	CAAAACAGCCCATCTGTGATGATTTGAC	CTGCCCTTCAGAA 245
QY	181	CTTCAGCACACACAGAACTCTTTC	CAAGTGGCACTTGCCTAAATTAATATAGCTCTAAT	240
Db	246	CTTCAGCACACACAGAACTCTTTC	CAAGTGGCACTTGCCTAAATTAATATAGCTCTAAT	305
QY	241	ATAGATCTTGACCTTTCTTTTAC	ACTCTTCTGAAGGAAGTAATCACCCCTTTAGCACT	300
Db	306	ATAGATCTTGACCTTTCTTTTAC	ACTCTTCTGAAGGAAGTAATCACCCCTTTAGCACT	365
QY	301	TCCCATCAACAATATTTTATTA	AAATTCCAATCTGGTTCATCAACAAGCTTTGGCAATG	360
Db	366	TCCCATCAACAATATTTTATTA	AAATTCCAATCTGGTTCATCAACAAGCTTTGGCAATG	425
QY	361	GTTCCTCATCACTCTCTTG	CATGGTTTAACCTGCCAGGTGTGATACGACAATGTCCAA	420

Db	426	GTTCATCACTCTCTTGCGCATTTGTTTACTCGCACGGTGTGATAGCAGCAATTGTCCAA	485
OY	421	CTTCATTAATGGAACCAAGTATTAAGAATTTCCAAATGTTGGATTAAGTGGATGTATACA	480
Db	486	CTTATATATGAAACCAAGTATTAAGAATTTCCAAATGTTGGATTAAGTGGATGTATACA	545
OY	481	AGAAAGCAGTTGGGCTTCTCAGTTCTTTTGTGCTGTACTGCATGCATCAATTAATAGTCG	540
Db	546	AGAAAGCAGTTGGGCTTCTCAGTTCTTTTGTGCTGTACTGCATGCATCAATTAATAGTCG	605
OY	541	TCTTAACCAATGAGCGCATCTCTACAGATCAAGTTGCTAAACTGGGCATATCAACAGTC	600
Db	606	TCTTAACCAATGAGCGCATCTCTACAGATCAAGTTGCTAAACTGGGCATATCAACAGTC	665
OY	601	CAACAAATAAAGAAGATGCTGTGATGAGCATGATGTTGAGAAATGAGATTAATGTG	660
Db	666	CAACAAATAAAGAAGATGCTGTGATGAGCATGATGTTGAGAAATGAGATTAATGTG	725
OY	661	TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGTGACATCTAATTCATCT	720
Db	726	TCTCTGGGAATTTGGGATTTGGCAATCTGGCTCTGTTGGCTGTGACATCTAATTCATCT	785
OY	721	GTGAGTGACTTTTGACATGGAAGAAATTTCACTAATTCAGAGCAAGCTAGCAATGTT	780
Db	786	GTGAGTGACTTTTGACATGGAAGAAATTTCACTAATTCAGAGCAAGCTAGCAATGTT	845
OY	781	TCCCTTCTACTGGGACAAATACAGCAATGATTTTTGCTGTGAAATTAAGTGATAGATTA	840
Db	846	TCCCTTCTACTGGGACAAATACAGCAATGATTTTTGCTGTGAAATTAAGTGATAGATTA	905
OY	841	AAACAATTTGATGATGTATACACCTCCAACTTTATGATAGCTGTGTTTCTCCCAATGTT	900
Db	906	AAACAATTTGATGATGTATACACCTCCAACTTTATGATAGCTGTGTTTCTCCCAATGTT	965
OY	901	GTCTGTATTTTAAAGCATATCTATTCCTGCGCATGCTTGAGAAAGAAATACAGAAATT	960
Db	966	GTCTGTATTTTAAAGCATATCTATTCCTGCGCATGCTTGAGAAAGAAATACAGAAATT	1025
OY	961	AGACATGTTGGGAAGACGTACCAAAATTTAACAACCTGAGATATATGTTCCCAAGTG	1017
Db	1026	AGACATGTTGGGAAGACGTACCAAAATTTAACAACCTGAGATATATGTTCCCAAGTG	1082

RESULT 4

```

US-09/879-426-878
Sequence 878, Application US/09679426
Patent No. 6759515
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yugu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Derrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER.
FILE REFERENCE: 210121.427620
CURRENT APPLICATION NUMBER: US/09/679,426
CURRENT FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 895
SOFTWARE: FaSTSeq for Windows Version 3.0

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; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-679-426-878

Query Match      100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.5e-304;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ATGGAAGCAGAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 60
      66 ATGGAAGCAGAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 125
QY      61 AATTGAAGAAAGACGATTATTTGCAATAGAGACGGGAGAGACGACATGCTAAAAAGA 120
      126 AATTGAAGAAAGACGATTATTTGCAATAGAGACGGGAGAGACGACATGCTAAAAAGA 185
QY      121 CCTGTGCTTTTGCAATTTGACCAAAAGCCCATGCTGATGAATTTGACTGCCCTTGAA 180
      186 CCTGTGCTTTTGCAATTTGACCAAAAGCCCATGCTGATGAATTTGACTGCCCTTGAA 245
QY      181 CTTCAGACACACAGAGAACTCTTCCACAGTGGCACTTGGCAATTAATAAGCTGAT 240
      246 CTTCAGACACACAGAGAACTCTTCCACAGTGGCACTTGGCAATTAATAAGCTGAT 305
QY      241 ATAGCATCTCTGACTTTTCTTACACTCTTCTGAGGGAAGTAATTCACCTTTAGCACT 300
      306 ATAGCATCTCTGACTTTTCTTACACTCTTCTGAGGGAAGTAATTCACCTTTAGCACT 365
QY      301 TCCCATCAACAATTTTATATAATTTCCAACTCTGTGATCAACAAGCTTGGCAATG 360
      366 TCCCATCAACAATTTTATATAATTTCCAACTCTGTGATCAACAAGCTTGGCAATG 425
QY      361 GTTTCATCACTCTCTGGCATTTGTTTACCTGCCAGTGTGATAGACGAATTTGCCAA 420
      426 GTTTCATCACTCTCTGGCATTTGTTTACCTGCCAGTGTGATAGACGAATTTGCCAA 485
QY      421 CTTCATATAGGAACAAGTATAGAAATTTCCACATTTGTTGATAGATGTTTAA 480
      486 CTTCATATAGGAACAAGTATAGAAATTTCCACATTTGTTGATAGATGTTTAA 545
QY      481 AGAAAGACATTTGGGCTTCTCAATTTCTTTTGGCTGATGATGCAATTTATGCTG 540
      546 AGAAAGACATTTGGGCTTCTCAATTTCTTTTGGCTGATGATGCAATTTATGCTG 605
QY      541 TCTTACCCATGAGGAGATCTTACAGATTCAGATTTGCTAACTGGGCAATTCACAGGTC 600
      606 TCTTACCCATGAGGAGATCTTACAGATTCAGATTTGCTAACTGGGCAATTCACAGGTC 665
QY      601 CAACAAAATAAGAAAGATGCTGATGATGATGATGATGATGATGATGATGATGATG 660
      666 CAACAAAATAAGAAAGATGCTGATGATGATGATGATGATGATGATGATGATG 725
QY      661 TCTCTGGGAATTTGGGAATTTGGCAATCTGGCTCTGTTGGCTGATCACTTATTCATCT 720
      726 TCTCTGGGAATTTGGGAATTTGGCAATCTGGCTCTGTTGGCTGATCACTTATTCATCT 785
QY      721 GTGAGGATCTTTTGAATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATTTG 780
      786 GTGAGGATCTTTTGAATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATTTG 845
QY      781 TCCCTTCTTACTGGGCAATATACGCAATGATTTTTCCTGGAATATAGATAGATATA 840
      846 TCCCTTCTTACTGGGCAATATACGCAATGATTTTTCCTGGAATATAGATAGATATA 905
QY      841 AAAACAATTTGATGATATACCTCCAACTTTTATATAGCTGTTTCTTCCAATTTG 900
      906 AAAACAATTTGATGATATACCTCCAACTTTTATATAGCTGTTTCTTCCAATTTG 965
QY      901 GTTCGATATTTTAAAGCATATATCTGCGCATGCTTGAAGAGAAAGATTCAGAGAT 960
      966 GTTCGATATTTTAAAGCATATATCTGCGCATGCTTGAAGAGAAAGATTCAGAGAT 1025
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QY      961 AGACATGTTGGGAGAGCTCACCAAAATTAACAAAATGAGATATGTTCCAGTTG 1017
      1026 AGACATGTTGGGAGAGAGCTCACCAAAATTAACAAAATGAGATATGTTCCAGTTG 1082

RESULT 5
US-09-759-143-878
Sequence 878, Application US/09759143
Patent No. 6800746
GENERAL INFORMATION:
APPLICANT: Xu, Jiaochun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuxi
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick L.
APPLICANT: Wang, Aljun
APPLICANT: Skeiky, Yaelir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.427C23
CURRENT APPLICATION NUMBER: US/09/759,143
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 934
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 878
LENGTH: 1195
TYPE: DNA
ORGANISM: Homo sapiens
US-09-759-143-878

Query Match      100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.5e-304;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ATGGAAGCAGAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 60
      66 ATGGAAGCAGAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 125
QY      61 AATTGAAGAAAGACGATTATTTGCAATAGAGACGGGAGAGACGACATGCTAAAAAGA 120
      126 AATTGAAGAAAGACGATTATTTGCAATAGAGACGGGAGAGACGACATGCTAAAAAGA 185
QY      121 CCTGTGCTTTTGCAATTTGACCAAAAGCCCATGCTGATGAATTTGACTGCCCTTGAA 180
      186 CCTGTGCTTTTGCAATTTGACCAAAAGCCCATGCTGATGAATTTGACTGCCCTTGAA 245
QY      181 CTTCAGACACACAGAGAACTCTTCCACAGTGGCACTTGGCAATTAATAAGCTGAT 240
      246 CTTCAGACACACAGAGAACTCTTCCACAGTGGCACTTGGCAATTAATAAGCTGAT 305
QY      241 ATAGCATCTCTGACTTTTCTTACACTCTTCTGAGGGAAGTAATTCACCTTTAGCACT 300
      306 ATAGCATCTCTGACTTTTCTTACACTCTTCTGAGGGAAGTAATTCACCTTTAGCACT 365
QY      301 TCCCATCAACAATTTTATATAATTTCCAACTCTGTGATCAACAAGCTTGGCAATG 360
      366 TCCCATCAACAATTTTATATAATTTCCAACTCTGTGATCAACAAGCTTGGCAATG 425
QY      361 GTTTCATCACTCTCTGGCATTTGTTTACCTGCCAGTGTGATAGACGAATTTGCCAA 420
      426 GTTTCATCACTCTCTGGCATTTGTTTACCTGCCAGTGTGATAGACGAATTTGCCAA 485
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QY 421 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTGGTGGATTAAGATGTTAACA 480
DB 486 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTGGTGGATTAAGATGTTAACA 545
QY 481 AGAAGACATTTGGGCTTCTCAATTTCTTTTGGCTGACTGATGCAATTTATAGCTG 540
DB 546 AGAAGACATTTGGGCTTCTCAATTTCTTTTGGCTGACTGATGCAATTTATAGCTG 605
QY 541 TCTTACCCATGAGGCGATCTTACAGTACAGTTGCTAACTGGGCAATACAGAGTGC 600
DB 606 TCTTACCCATGAGGCGATCTTACAGTACAGTTGCTAACTGGGCAATACAGAGTGC 665
QY 601 CAACAAATTAAGAAAGATGCTGATTAAGATGATGTTTGAAGAAATGAGATTTATGTC 660
DB 666 CAACAAATTAAGAAAGATGCTGATTAAGATGATGTTTGAAGAAATGAGATTTATGTC 725
QY 661 TCTCTGGGAATTTGGGATTTGGCAATTCCTGCTGCTGCTGCTGATCTTATTCATCT 720
DB 726 TCTCTGGGAATTTGGGATTTGGCAATTCCTGCTGCTGCTGCTGATCTTATTCATCT 785
QY 721 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 780
DB 786 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 845
QY 781 TCCCTTCTACTGGGCAATATACAGCATTTGATTTTGCCTGGAATTAAGATGATGATTA 840
DB 846 TCCCTTCTACTGGGCAATATACAGCATTTGATTTTGCCTGGAATTAAGATGATGATTA 905
QY 841 AAACAAATTTGATGATTAACCTGCACTTTTATGATAGCTGTTTCCCTCAATGTT 900
DB 906 AAACAAATTTGATGATTAACCTGCACTTTTATGATAGCTGTTTCCCTCAATGTT 965
QY 901 GTCCGATATTTAAAGCATACTATTCCTGCCATGCTGAGGAAGAAATGATGATGATT 960
DB 966 GTCCGATATTTAAAGCATACTATTCCTGCCATGCTGAGGAAGAAATGATGATGATT 1025
QY 961 AGACATGTTGGGAAGAGCTGACCAAAATTAACAAATGAGATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGGAAGAGCTGACCAAAATTAACAAATGAGATATGTTCCAGTTG 1082

RESULT 6
US-10-010-667A-1
; Sequence 1, Application US/10010667A
; Patent No. 6887975
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Hubert, Rene S.
; APPLICANT: Leong, Kahan
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Saffran, Douglas C.
; APPLICANT: Mitchell, Steve Chappell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 511582001601
; CURRENT APPLICATION NUMBER: US/10/010,667A
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-010-667A-1

Query Match 100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2,5e-304;

Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 121 ATGGAAGGAGAAAAGACATCAACCAAGAACTTTGGAAATGAAAGCTTAGAGA 60
DB 66 ATGGAAGGAGAAAAGACATCAACCAAGAACTTTGGAAATGAAAGCTTAGAGA 125
QY 61 AATTGAGAAAGACGATTAATTGCAATGAGACAGGAGAGACAGATGCTTAAAGA 120
DB 126 AATTGAGAAAGACGATTAATTGCAATGAGACAGGAGAGACAGATGCTTAAAGA 185
QY 121 CCTGTCTTTTGGATTTGACCAACAGCCCATGCTGATGAATTTGACCTCCCTAGAA 180
DB 186 CCTGTCTTTTGGATTTGACCAACAGCCCATGCTGATGAATTTGACCTCCCTAGAA 245
QY 181 CTTGAGCAGACAGGAACTTTTCCAGAGTGGGCACTTGCATTAATAATAGCTGATT 240
DB 246 CTTGAGCAGACAGGAACTTTTCCAGAGTGGGCACTTGCATTAATAATAGCTGATT 305
QY 241 ATAGCATCTGACATTTTCTTTACACTCTTCTGAGGGAATTAATCACCTTTAGCACT 300
DB 306 ATAGCATCTGACATTTTCTTTACACTCTTCTGAGGGAATTAATCACCTTTAGCACT 365
QY 301 TCCCATCAACATATTTTATTAATAATTCATCTGCTGATCAACAAATCTTGGCAATG 360
DB 366 TCCCATCAACATATTTTATTAATAATTCATCTGCTGATCAACAAATCTTGGCAATG 425
QY 361 GTTTCATACCTCTGTGGCATTTGTTTACCTGCCAGGATGATGACCAATTTGTCGA 420
DB 426 GTTTCATACCTCTGTGGCATTTGTTTACCTGCCAGGATGATGACCAATTTGTCGA 485
QY 421 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTGGTGGATTAAGATGTTAACA 480
DB 486 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTGGTGGATTAAGATGTTAACA 545
QY 481 AGAAGACATTTGGGCTTCTCAATTTCTTTTGGCTGACTGATGCAATTTATAGCTG 540
DB 546 AGAAGACATTTGGGCTTCTCAATTTCTTTTGGCTGACTGATGCAATTTATAGCTG 605
QY 541 TCTTACCCATGAGGCGATCTTACAGTACAGTTGCTAACTGGGCAATACAGAGTGC 600
DB 606 TCTTACCCATGAGGCGATCTTACAGTACAGTTGCTAACTGGGCAATACAGAGTGC 665
QY 601 CAACAAATTAAGAAAGATGCTGATTAAGATGATGTTTGAAGAAATGAGATTTATGTC 660
DB 666 CAACAAATTAAGAAAGATGCTGATTAAGATGATGTTTGAAGAAATGAGATTTATGTC 725
QY 661 TCTCTGGGAATTTGGGATTTGGCAATTCCTGCTGCTGCTGATCTTATTCATCT 720
DB 726 TCTCTGGGAATTTGGGATTTGGCAATTCCTGCTGCTGCTGATCTTATTCATCT 785
QY 721 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 780
DB 786 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 845
QY 781 TCCCTTCTACTGGGCAATATACAGCATTTGATTTTGCCTGGAATTAAGATGATGATTA 840
DB 846 TCCCTTCTACTGGGCAATATACAGCATTTGATTTTGCCTGGAATTAAGATGATGATTA 905
QY 841 AAACAAATTTGATGATTAACCTGCACTTTTATGATAGCTGTTTCCCTCAATGTT 900
DB 906 AAACAAATTTGATGATTAACCTGCACTTTTATGATAGCTGTTTCCCTCAATGTT 965
QY 901 GTCCGATATTTAAAGCATACTATTCCTGCCATGCTGAGGAAGAAATGATGATGATT 960
DB 966 GTCCGATATTTAAAGCATACTATTCCTGCCATGCTGAGGAAGAAATGATGATGATT 1025
QY 961 AGACATGTTGGGAAGAGCTGACCAAAATTAACAAATGAGATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGGAAGAGCTGACCAAAATTAACAAATGAGATATGTTCCAGTTG 1082

RESULT 7
US-10-012-896-878

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; Sequence 878, Application US/10012896
; Patent No. 694336
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Derrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlotia
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Wantanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 878
; LENGTH: 1195
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-012-896-878

Query Match      100.0%; Score 1017; DB 3; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.5e-304;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGCAGAAAAGACATCAACAAACCAAGAACTTTGGAAAATGAAGCTTAGAGAGA 60
DB 66 ATGGAAGCAGAAAAGACATCAACAAACCAAGAACTTTGGAAAATGAAGCTTAGAGAGA 125
QY 61 AATTTAGAAAGAACGATTATTGCTAAGACACGCGAGAGACCGCATGCTAAAGAGA 120
DB 126 AATTTAGAAAGAACGATTATTGCTAAGACACGCGAGAGACCGCATGCTAAAGAGA 185
QY 121 CCTGTCCTTTTGATTTGACACCAACAGCCCATGCTGATGATTTGACGCCCCCTCAGAA 180
DB 186 CCTGTCCTTTTGATTTGACACCAACAGCCCATGCTGATGATTTGACGCCCCCTCAGAA 245
QY 181 CTTGACGACACAGAGAACTCTTCCACAGTGGCATTGCCAATTAATAGTGTCTATT 240
DB 246 CTTGACGACACAGAGAACTCTTCCACAGTGGCATTGCCAATTAATAGTGTCTATT 305
QY 241 ATAGCATCTCTGACTTTTCTTTAAGCTCTTCTGAGGAAAGTAATTCACCTTTAGCAACT 300
DB 306 ATAGCATCTCTGACTTTTCTTTAAGCTCTTCTGAGGAAAGTAATTCACCTTTAGCAACT 365
QY 301 TCCCATCAACATATTTTATATAAATTCATCTCTGTCATCAACAAAGCTTTGCCAATG 360
DB 366 TCCCATCAACATATTTTATATAAATTCATCTCTGTCATCAACAAAGCTTTGCCAATG 425
QY 361 GTTTCATCACTCTCTTGGCATGTTTACTGCTGAGAGTGTATAGCAGCAATTTGTCGA 420
DB 426 GTTTCATCACTCTCTTGGCATGTTTACTGCTGAGAGTGTATAGCAGCAATTTGTCGA 485
QY 421 CTTGATATGGAACCAAGTATAGAAATTTCACATTTGTTGATAGTATGTTTAAACA 480
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DB 486 CTTGATATGGAACCAAGTATAGAAATTTCACATTTGTTGATAGTATGTTTAAACA 545
QY 481 AGAAGCAGTTTGGGCTTCTCAGTTCTTTTGTGCTGACTGATGCAATTTATAGTCTG 540
DB 546 AGAAGCAGTTTGGGCTTCTCAGTTCTTTTGTGCTGACTGATGCAATTTATAGTCTG 605
QY 541 TCTTACCCATGAGCGCATCTTACAGATCAAGTTGCTTAACTGGCATATCAACAGTGC 600
DB 606 TCTTACCCATGAGCGCATCTTACAGATCAAGTTGCTTAACTGGCATATCAACAGTGC 665
QY 601 CAACAAATTAAGAAAGATGCTGATTTGAGCATGATTTGGAATGAGATTTATGTG 660
DB 666 CAACAAATTAAGAAAGATGCTGATTTGAGCATGATTTGGAATGAGATTTATGTG 725
QY 661 TCTCTGGAAATTTGGGATTTGGCAATATCTGCTCTGTGGCTGTGACATCTTATTCATCT 720
DB 726 TCTCTGGAAATTTGGGATTTGGCAATATCTGCTCTGTGGCTGTGACATCTTATTCATCT 785
QY 721 GTGAGTCACTCTTTGACATGAGAGAAATTTACATATTTACAGACCAAGCTAGAAATGTT 780
DB 786 GTGAGTCACTCTTTGACATGAGAGAAATTTACATATTTACAGACCAAGCTAGAAATGTT 845
QY 781 TCCCTTCTACTGGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGATAGATATA 840
DB 846 TCCCTTCTACTGGGACAAATACAGCATTTGATTTTGGCTGGAATTAAGTGATAGATATA 905
QY 841 AAACAATTTGATGATATATACACTTCCAACTTTATGATAGCTGTTTCTTCCAAATGTT 900
DB 906 AAACAATTTGATGATATATATACACTTCCAACTTTATGATAGCTGTTTCTTCCAAATGTT 965
QY 901 GTCTGATATTTTAAAGACATCTATCTCTGCGCATGCTTGAGAGAAAGATCTGAAAGTT 960
DB 966 GTCTGATATTTTAAAGACATCTATCTCTGCGCATGCTTGAGAGAAAGATCTGAAAGTT 1025
QY 961 AGACATGTTGGGAAGACGTCAACCAAAATTAACAAAATGAGATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGGAAGACGTCAACCAAAATTAACAAAATGAGATATGTTCCAGTTG 1082
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RESULT 8
US-09-949-016-2686
; Sequence 2686, Application US/09949016
; Patent No. 6812319
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2686
; LENGTH: 1147
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-2686

Query Match      99.8%; Score 1015.4; DB 3; Length 1147;
Best Local Similarity 99.8%; Pred. No. 7.8e-304;
Matches 1016; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGGAAGCAGAAAAGACATCAACAAACCAAGAACTTTGGAAAATGAAGCTTAGAGAGA 60
DB 33 ATGGAAGCAGAAAAGACATCAACAAACCAAGAACTTTGGAAAATGAAGCTTAGAGAGA 92
```

QY 61 AATTGAGAGAGAGATTTATTTGATAGAGACGAGAGAGACAGACATGCTTAAAAAGA 120
Db 93 AATTGAGAGAGAGATTTATTTGATAGAGAGACGAGAGAGACAGACATGCTTAAAAAGA 152
QY 121 CTTGCTGCTTTTGCATTTTGCACCAAGCCCATGCTGATGATTTGACTGCTTCAAA 180
Db 153 CTTGCTGCTTTTGCATTTTGCACCAAGCCCATGCTGATGATTTGACTGCTTCAAA 212
QY 181 CTTGAGACACAGAGAACTCTTTCACAGTGGCACTTGCATTTAAATAGCTGCTATT 240
Db 213 CTTGAGACACAGAGAACTCTTTCACAGTGGCACTTGCATTTAAATAGCTGCTATT 272
QY 241 ATAGCATCTCTGACTTTTCTTTTCACTCTTCTGAGGAGATTAATCACTCTTGAACA 300
Db 273 ATAGCATCTCTGACTTTTCTTTTCACTCTTCTGAGGAGATTAATCACTCTTGAACA 332
QY 301 TCCCATCAACAAATTTTATTTAAATTTCAATCTGCTGATCAACAAAGCTTGGCCATG 360
Db 333 TCCCATCAACAAATTTTATTTAAATTTCAATCTGCTGATCAACAAAGCTTGGCCATG 392
QY 361 GTTTCATCACTCTCTTGGCACTTGTATTCAGTGGTGAATGAGAGCAATTTGCCAA 420
Db 393 GTTTCATCACTCTCTTGGCACTTGTATTCAGTGGTGAATGAGAGCAATTTGCCAA 452
QY 421 CTTTCAATAGGAAACAAGTATTAAGAACTTCACTTGTGATTAAGTGAATGTTTAA 480
Db 453 CTTTCAATAGGAAACAAGTATTAAGAACTTCACTTGTGATTAAGTGAATGTTTAA 512
QY 481 AGAAGACATTTGGGCTTCTCACTTTTCTTTTGTGCTGATGATGATTTATTTAGCTG 540
Db 513 AGAAGACATTTGGGCTTCTCACTTTTCTTTTGTGCTGATGATGATTTATTTAGCTG 572
QY 541 TCTTACCAATGAGGAGATCTTCACTGATTAAGTGTAACTGGGCAATTAACAAGCTG 600
Db 573 TCTTACCAATGAGGAGATCTTCACTGATTAAGTGTAACTGGGCAATTAACAAGCTG 632
QY 601 CAACAAATTAAGAGATGCTTGAATGAGATGATGATTTGAGAAATGAGATTTATG 660
Db 633 CAACAAATTAAGAGATGCTTGAATGAGATGATGATTTGAGAAATGAGATTTATG 692
QY 661 TCTTGGGAAATTTGGGATTTGGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Db 693 TCTTGGGAAATTTGGGATTTGGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 752
QY 721 GTGAGTGAATCTTTGATGAGAGAAATTTCACTATTTGAGAGCAAGCTTGAATTTG 780
Db 753 GTGAGTGAATCTTTGATGAGAGAAATTTCACTATTTGAGAGCAAGCTTGAATTTG 812
QY 781 TCCCTTCTACTGGGCAATATACAGCATTTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db 813 TCCCTTCTACTGGGCAATATACAGCATTTGCTGCTGCTGCTGCTGCTGCTGCTGCT 872
QY 841 AAACAAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 900
Db 873 AAACAAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 932
QY 901 GTTCCGATATTTAAAGCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Db 933 GTTCCGATATTTAAAGCAATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 992
QY 961 AGACATGTTGGGAAAGCTGACCAAAATTAACAAATGAGATGATGTTCCAGTTG 1017
Db 993 AGACATGTTGGGAAAGCTGACCAAAATTAACAAATGAGATGATGTTCCAGTTG 1049

RESULT 9
US-09-323-873A-6
Sequence 6, Application US/09323873A

Patent No. 6339503
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
APPLICANT: Rene S. Hubert
APPLICANT: Kahan Leong

APPLICANT: Arthur B. Raitano
APPLICANT: Douglas C. Saffran
APPLICANT: Steve Chappell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
FILE REFERENCE: 129.16US02
CURRENT APPLICATION NUMBER: US/09/323,873A
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/087,520
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 3627
TYPE: DNA
ORGANISM: Homo Sapiens
US-09-323-873A-6

Query Match 74.8%; Score 760.6; DB 3; Length 3627;
Best Local Similarity 99.5%; Pred. No. 1,2e-224;
Matches 763; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGGAAGAGAGAGAGATTTATTTGATAGAGACGAGAGAGACAGACATGCTTAAAAAGA 60
Db 96 ATGGAAGAGAGAGAGATTTATTTGATAGAGAGACGAGAGAGACAGACATGCTTAAAAAGA 155
QY 61 AATTGAGAGAGAGATTTATTTGATAGAGACGAGAGAGACAGACATGCTTAAAAAGA 120
Db 156 AATTGAGAGAGAGATTTATTTGATAGAGAGACGAGAGAGACAGACATGCTTAAAAAGA 215
QY 121 CTTGCTGCTTTTGCATTTTGCACCAAGCCCATGCTGATGATTTGACTGCTTCAAA 180
Db 216 CTTGCTGCTTTTGCATTTTGCACCAAGCCCATGCTGATGATTTGACTGCTTCAAA 275
QY 216 CTTGCTGCTTTTGCATTTTGCACCAAGCCCATGCTGATGATTTGACTGCTTCAAA 275
Db 216 CTTGCTGCTTTTGCATTTTGCACCAAGCCCATGCTGATGATTTGACTGCTTCAAA 275
QY 241 ATAGCATCTCTGAATTTTCTTTTCACTCTTCTGAGGAGATTAATCACTCTTGAACA 300
Db 336 ATAGCATCTCTGAATTTTCTTTTCACTCTTCTGAGGAGATTAATCACTCTTGAACA 395
QY 301 TCCCATCAACAAATTTTATTTAAATTTCAATCTGCTGATCAACAAAGCTTGGCCATG 360
Db 396 TCCCATCAACAAATTTTATTTAAATTTCAATCTGCTGATCAACAAAGCTTGGCCATG 455
QY 361 GTTTCATCACTCTCTTGGCACTTGTATTCAGTGGTGAATGAGAGCAATTTGCCAA 420
Db 456 GTTTCATCACTCTCTTGGCACTTGTATTCAGTGGTGAATGAGAGCAATTTGCCAA 515
QY 421 CTTTCAATAGGAAACAAGTATTAAGAACTTCACTTGTGATTAAGTGAATGTTTAA 480
Db 516 CTTTCAATAGGAAACAAGTATTAAGAACTTCACTTGTGATTAAGTGAATGTTTAA 575
QY 516 CTTTCAATAGGAAACAAGTATTAAGAACTTCACTTGTGATTAAGTGAATGTTTAA 575
Db 516 CTTTCAATAGGAAACAAGTATTAAGAACTTCACTTGTGATTAAGTGAATGTTTAA 575
QY 541 TCTTACCAATGAGGAGATCTTCACTGATTAAGTGTAACTGGGCAATTAACAAGCTG 600
Db 636 TCTTACCAATGAGGAGATCTTCACTGATTAAGTGTAACTGGGCAATTAACAAGCTG 695
QY 601 CAACAAATTAAGAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 660
Db 696 CAACAAATTAAGAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 755
QY 661 TCTTGGGAAATTTGGGATTTGGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
Db 756 TCTTGGGAAATTTGGGATTTGGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 815
QY 721 GTGAGTGAATCTTTGATGAGAGAAATTTCACTATTTGAGAGCAAGCTTGAATTTG 780

Db 816 GTGAGTGAACCTTTGACATGAGAGAAATTCTACTATATTCAGGTAA 862

RESULT 10
US-09-455-486-4
Sequence 4, Application US/09455486
Patent No. 6833438
GENERAL INFORMATION:
APPLICANT: Daniel E. Afar
APPLICANT: Rene S. Hubert
APPLICANT: Arthur B. Raitano
APPLICANT: Douglas C. Saffran
APPLICANT: Stephen C. Mitchell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 129.17-US-11
CURRENT APPLICATION NUMBER: US/09/455,486
CURRENT FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 3627
TYPE: DNA
ORGANISM: Homo sapiens
US-09-455-486-4

Query Match 74.8%; Score 760.6; DB 3; Length 3627;
Best Local Similarity 99.5%; Pred. No. 1.2e-224;
Matches 763; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGGAAGAGAGAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCCTTAGAGA 60
DB 96 ATGGAAGAGAGAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCCTTAGAGA 155
61 AATTTAGAAGAGAGCATTAATTTGCAATAGACCGGAGAGACCGACATGCTAAAAAGA 120
156 AATTTAGAAGAGAGCATTAATTTGCAATAGACCGGAGAGACCGACATGCTAAAAAGA 215
121 CCTGTCCTTTTGCAATTTGCAACCAAGCCCATGCTGAATTTGACCTGCTTGAAGA 180
DB 216 CCTGTCCTTTTGCAATTTGCAACCAAGCCCATGCTGAATTTGACCTGCTTGAAGA 275
181 CTTGAGCACACAGGAGACTCTTTCACAGTGGCACTTGCATTAATAATAGCTGTATT 240
DB 276 CTTGAGCACACAGGAGACTCTTTCACAGTGGCACTTGCATTAATAATAGCTGTATT 335
QY 241 ATAGCATCTCTGACTTTCTTTACACTCTTCTGAGGGAATTAATCAACCTTTAGCACT 300
DB 336 ATAGCATCTCTGACTTTCTTTACACTCTTCTGAGGGAATTAATCAACCTTTAGCACT 395
QY 301 TCCCATCAACATATTTTATATAAATTTCCAAATCTGTCTATCAACAAAGCTTTGCCAATG 360
DB 396 TCCCATCAACATATTTTATATAAATTTCCAAATCTGTCTATCAACAAAGCTTTGCCAATG 455
QY 361 GTTTCATCACTCTTTGGCATTTGTTTACCTGCAAGTGTATGATAGCAAGCAATTTGCCAA 420
DB 456 GTTTCATCACTCTTTGGCATTTGTTTACCTGCAAGTGTATGATAGCAAGCAATTTGCCAA 515
QY 421 CTTCATATAGGAACCAAGTATAGAAATTTCCATTTGTTGATTAAGTATGATTTAACA 480
DB 516 CTTCATATAGGAACCAAGTATAGAAATTTCCATTTGTTGATTAAGTATGATTTAACA 575
QY 481 AGAAGCAAGTTTGGGCTTCTCAAGTTTCTTTTGGCTGTACTGATGCAATTTATAGCTG 540
DB 576 AGAAGCAAGTTTGGGCTTCTCAAGTTTCTTTTGGCTGTACTGATGCAATTTATAGCTG 635
QY 541 TCTTACCAATGAGGAGATCTCAAGTATCAAGTGTCTAACTGGGCAATTCACAGGTC 600
DB 636 TCTTACCAATGAGGAGATCTCAAGTATCAAGTGTCTAACTGGGCAATTCACAGGTC 695

QY 601 CAACAAAATTAAGAAAGATGCTGATTTGAGCATGATGTTGGAAATGAGATTTATGTG 660
DB 696 CAACAAAATTAAGAAAGATGCTGATTTGAGCATGATGTTGGAAATGAGATTTATGTG 755
QY 661 TCTCTGGGAATTTGGGATTTGGCAATTAAGCTGCTGTTGGCTGTGACATCTTATTCATCT 720
DB 756 TCTCTGGGAATTTGGGATTTGGCAATTAAGCTGCTGTTGGCTGTGACATCTTATTCATCT 815
QY 721 GTGAGTGAACCTTTGACATGAGAGAAATTTCTACTATATTCAGACCA 767
DB 816 GTGAGTGAACCTTTGACATGAGAGAAATTTCTACTATATTCAGGTAA 862

RESULT 11
US-10-010-667A-6
Sequence 6, Application US/10010667A
Patent No. 6887975
GENERAL INFORMATION:
APPLICANT: Afar, Daniel
APPLICANT: Hubert, Rene S.
APPLICANT: Leong, Kahan
APPLICANT: Raitano, Arthur B.
APPLICANT: Saffran, Douglas C.
APPLICANT: Mitchell, Steve Chappell
TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
FILE REFERENCE: 511582001601
CURRENT APPLICATION NUMBER: US/10/010,667A
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 09/323,873
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/087,520
PRIOR FILING DATE: 1998-06-01
PRIOR APPLICATION NUMBER: 60/091,183
PRIOR FILING DATE: 1998-06-30
NUMBER OF SEQ ID NOS: 32
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 3627
TYPE: DNA
ORGANISM: Homo sapiens
US-10-010-667A-6

Query Match 74.8%; Score 760.6; DB 3; Length 3627;
Best Local Similarity 99.5%; Pred. No. 1.2e-224;
Matches 763; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGGAAGAGAGAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCCTTAGAGA 60
DB 96 ATGGAAGAGAGAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCCTTAGAGA 155
61 AATTTAGAAGAGAGCATTAATTTGCAATAGACCGGAGAGACCGACATGCTAAAAAGA 120
156 AATTTAGAAGAGAGCATTAATTTGCAATAGACCGGAGAGACCGACATGCTAAAAAGA 215
121 CCTGTCCTTTTGCAATTTGCAACCAAGCCCATGCTGAATTTGACCTGCTTGAAGA 180
DB 216 CCTGTCCTTTTGCAATTTGCAACCAAGCCCATGCTGAATTTGACCTGCTTGAAGA 275
QY 216 CCTGTCCTTTTGCAATTTGCAACCAAGCCCATGCTGAATTTGACCTGCTTGAAGA 275
181 CTTGAGCACACAGGAGACTCTTTCACAGTGGCACTTGCATTAATAATAGCTGTATT 240
DB 276 CTTGAGCACACAGGAGACTCTTTCACAGTGGCACTTGCATTAATAATAGCTGTATT 335
QY 241 ATAGCATCTCTGACTTTCTTTACACTCTTCTGAGGGAATTAATCAACCTTTAGCACT 300
DB 336 ATAGCATCTCTGACTTTCTTTACACTCTTCTGAGGGAATTAATCAACCTTTAGCACT 395
QY 301 TCCCATCAACATATTTTATATAAATTTCCAAATCTGTCTATCAACAAAGCTTTGCCAATG 360
DB 396 TCCCATCAACATATTTTATATAAATTTCCAAATCTGTCTATCAACAAAGCTTTGCCAATG 455
QY 361 GTTTCATCACTCTTTGGCATTTGTTTACCTGCAAGTGTATGATAGCAAGCAATTTGCCAA 420

Db 456 GTTTCATACCTCTTGGCATTGGTTTACCTGCCAGGTGATAGACGAATTGTCCAA 515
Qy 421 CTTCAATATGGAACCAAGTATPAGAAAGTTTCCACATTTGGTGAATAGTGATGTAA 480
Db 516 CTTCAATATGGAACCAAGTATPAGAAAGTTTCCACATTTGGTGAATAGTGATGTAA 575
Qy 481 AGAAGAGATTGGGCTTCTCAGTTCTTTTCTGTCATGCAATGCAATTAATAGTCG 540
Db 576 AGAAGAGATTGGGCTTCTCAGTTCTTTTCTGTCATGCAATTAATAGTCG 635
Qy 541 TCTTACCCATAGAGCCATCTTACAGATPACAAAGTTTCTTAACTGGGCATPACAAAGTC 600
Db 636 TCTTACCCATAGAGCCATCTTACAGATPACAAAGTTTCTTAACTGGGCATPACAAAGTC 695
Qy 601 CAACAAATTAAGAAAGATGCTGATGAGCATGATGTTTGGAGATGAGATTTATAGTC 660
Db 696 CAACAAATTAAGAAAGATGCTGATGAGCATGATGTTTGGAGATGAGATTTATAGTC 755
Qy 661 TCTTGGGAAATGTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTTATTCATCT 720
Db 756 TCTTGGGAAATGTTGGGATTTGGCAATCTGCTCTGTTGGCTGTGACATCTTATTCATCT 815
Qy 721 GTGAGTACTCTTTGACATGAGAGAAATTCATATATTCAGAGCAA 767
Db 816 GTGAGTACTCTTTGACATGAGAGAAATTCATATATTCAGAGCAA 862

RESULT 12

US-09-439-313-342/c
Sequence 342, Application US/09439313
Patent No. 6329505
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang Yuqi
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael
APPLICANT: Fanger, Gary
APPLICANT: Retter, Mark
APPLICANT: Solk, John
APPLICANT: Day, Craig
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C9
CURRENT APPLICATION NUMBER: US/09/439.313
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 342
LENGTH: 592
TYPE: DNA
ORGANISM: Homo sapien
US-09-439-313-342

Query Match 50.7%; Score 516; DB 3; Length 592;
Best Local Similarity 99.6%; Pred. No. 2.4e-149;

Matches 516; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGGAAGAGAAAGACATCAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAG 60
Db 518 ATGGAAGAGAAAGACATCAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAG 459
Qy 61 AATTGGAAGAAAGACATTTTTCATPAGAGACCGGAGAGACCGCATGCTPAAAAGA 120
Db 458 AATTGGAAGAAAGACATTTTTCATPAGAGACCGGAGAGACCGCATGCTPAAAAGA 399
Qy 121 CCTGTCCTTTTGCATTTGACCAAAACAGCCCATGATGAATTTGATGCGCCCTTGAGA 180
Db 398 CCTGTCCTTTTGCATTTGACCAAAACAGCCCATGATGAATTTGATGCGCCCTTGAGA 339
Qy 181 CTTGACACACACAGGAACCTTTTCCACATGTCACATTCGCAATTAATAGCTGCTATT 240

Db 338 CTTGACACACACAGGAACCTTTTCCACATGTCACATTCGCAATTAATAGCTGCTATT 279
Qy 241 ATGACATCTGACTTTTCTTTTACACTCTTCTGAGGAGATTAATTCACCTTTAGCACT 300
Db 278 ATGACATCTGACTTTTCTTTTACACTCTTCTGAGGAGATTAATTCACCTTTAGCACT 219
Qy 301 TCCATCAACAATTTTATTAATTCGAATCTGCTGATCAACAAGCTTGGCCAACT 360
Db 218 TCCATCAACAATTTTATTAATTCGAATCTGCTGATCAACAAGCTTGGCCAACT 159
Qy 361 GTTTCATCACTCTTTGGCATTTGTTTACCTGCAAGTGTGATAGACAGCAATGTCCAA 420
Db 158 GTTTCATCACTCTTTGGCATTTGTTTACCTGCAAGTGTGATAGACAGCAATGTCCAA 99
Qy 421 CTTCAATATGGAACCAAGTATPAGAAAGTTTCCACATTTGGTGAATAGTGATGTAA 480
Db 98 CTTCAATATGGAACCAAGTATPAGAAAGTTTCCACATTTGGTGAATAGTGATGTAA 39
Qy 481 AGAAGAGATTGGGCTTCTCAGTTCTTTTCTGTCATGCAATGCAATTAATAGTCG 540
Db 38 AGAAGAGATTGGGCTTCTCAGTTCTTTTCTGTCATGCAATTAATAGTCG 1

RESULT 13

US-09-352-616A-342/c
Sequence 342, Application US/09352616A
Patent No. 6395278
GENERAL INFORMATION:
APPLICANT: Dillon, Davin C.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang, Yuqi
APPLICANT: Xu, Jiangchun
APPLICANT: Mitcham, Jennifer Lynn
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427C8
CURRENT APPLICATION NUMBER: US/09/352.616A
NUMBER OF SEQ ID NOS: 472
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 342
LENGTH: 592
TYPE: DNA
ORGANISM: Homo sapien
US-09-352-616A-342

Query Match 50.7%; Score 516; DB 3; Length 592;
Best Local Similarity 99.6%; Pred. No. 2.4e-149;

Matches 516; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGGAAGAGAAAGACATCAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAG 60
Db 518 ATGGAAGAGAAAGACATCAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAG 459
Qy 61 AATTGGAAGAAAGACATTTTTCATPAGAGACCGGAGAGACCGCATGCTPAAAAGA 120
Db 458 AATTGGAAGAAAGACATTTTTCATPAGAGACCGGAGAGACCGCATGCTPAAAAGA 399
Qy 121 CCTGTCCTTTTGCATTTTGCACCAAAACAGCCCATGATGAATTTGATGCGCCCTTGAGA 180
Db 398 CCTGTCCTTTTGCATTTTGCACCAAAACAGCCCATGATGAATTTGATGCGCCCTTGAGA 339
Qy 181 CTTGACACACACAGGAACCTTTTCCACATGTCACATTCGCAATTAATAGCTGCTATT 240
Db 338 CTTGACACACACAGGAACCTTTTCCACATGTCACATTCGCAATTAATAGCTGCTATT 279
Qy 241 ATGACATCTGACTTTTCTTTTACACTCTTCTGAGGAGATTAATTCACCTTTAGCACT 300
Db 278 ATGACATCTGACTTTTCTTTTACACTCTTCTGAGGAGATTAATTCACCTTTAGCACT 219
Qy 301 TCCATCAACAATTTTATTAATTCGAATCTGCTGATCAACAAGCTTGGCCAACT 360

Db 218 TCCCATCAACAATATTTTATTAATAATTCOAATCTGTGATCAACAAGTCTTGCAATG 159
Oy 361 GTTTCATCACTCTCTTGCGCATTTGATTACCTGCCAGGTGTGATAGCAATTTGCCAA 420
Db 158 GTTTCATCACTCTCTTGCGCATTTGATTACCTGCCAGGTGTGATAGCAATTTGCCAA 99
Oy 421 CTTCAATATGGAACCAAGTATTAAGAATTTCCACATTTGGTGTGATTAAGTGTAAACA 480
Db 98 CTTCAATATGGAACCAAGTATTAAGAATTTCCACATTTGGTGTGATTAAGTGTAAACA 39
Oy 481 AGAAGCAGTTGGGCTTCTCAGTTTCTTTTGGCTG 518
Db 38 AGAAGCAGATTGGGCTTCTCAGTTTCTTTTGGCTG 1

RESULT 14

US-09-636-215-342/C
; Sequence 342, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriek
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 592
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-636-215-342

Query Match 50.7%; Score 516; DB 3; Length 592;
Best Local Similarity 99.6%; Pred. No. 2.4e-149;
Matches 516; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 ATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 60
Db 518 ATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 459
Oy 61 AATTTGAAGAAGACATTAATTTGCATTAAGGACAGGGAGACAGCATGTCTAAAGA 120
Db 458 AATTTGAAGAAGACATTAATTTGCATTAAGGACAGGGAGACAGCATGTCTAAAGA 399
Oy 121 CCGTGCTTTTGATTTGACCAACAAGCCCATGCTGATGAATTTGACTGCCCTTCAGA 180
Db 398 CCGTGCTTTTGATTTGACCAACAAGCCCATGCTGATGAATTTGACTGCCCTTCAGA 339
Oy 181 CTTGACACACACAGGAACCTTTTCCACAGTGGCACTTGCGCAATTAATAGTCTGAT 240
Db 338 CTTGACACACACAGGAACCTTTTCCACAGTGGCACTTGCGCAATTAATAGTCTGAT 279
Oy 241 ATAGCATCTCTGATTTTCTTCACTCTCTGAGGGAATTAATCACTTTAGCAACT 300
Db 278 ATAGCATCTCTGATTTTCTTCACTCTCTGAGGGAATTAATCACTTTAGCAACT 219

Oy 301 TCCCATCAACAATATTTTATTAATAATTCOAATCTGTGATCAACAAGTCTTGCAATG 360
Db 218 TCCCATCAACAATATTTTATTAATAATTCOAATCTGTGATCAACAAGTCTTGCAATG 159
Oy 361 GTTTCATCACTCTCTTGCGCATTTGATTACCTGCCAGGTGTGATAGCAATTTGCCAA 420
Db 158 GTTTCATCACTCTCTTGCGCATTTGATTACCTGCCAGGTGTGATAGCAATTTGCCAA 99
Oy 421 CTTCAATATGGAACCAAGTATTAAGAATTTCCACATTTGGTGTGATTAAGTGTAAACA 480
Db 98 CTTCAATATGGAACCAAGTATTAAGAATTTCCACATTTGGTGTGATTAAGTGTAAACA 39
Oy 481 AGAAGCAGTTGGGCTTCTCAGTTTCTTTTGGCTG 518
Db 38 AGAAGCAGATTGGGCTTCTCAGTTTCTTTTGGCTG 1

RESULT 15

US-09-685-166A-342/C
; Sequence 342, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriek
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 342
; LENGTH: 592
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-685-166A-342

Query Match 50.7%; Score 516; DB 3; Length 592;
Best Local Similarity 99.6%; Pred. No. 2.4e-149;
Matches 516; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 1 ATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 60
Db 518 ATGGAAGCAGAAAAGACATCAACAACCAAGAACTTTGAAAATGAAGCTTAGAGA 459
Oy 61 AATTTGAAGAAGACATTAATTTGCATTAAGGACAGGGAGACAGCATGTCTAAAGA 120
Db 458 AATTTGAAGAAGACATTAATTTGCATTAAGGACAGGGAGACAGCATGTCTAAAGA 399
Oy 121 CCGTGCTTTTGATTTGACCAACAAGCCCATGCTGATGAATTTGACTGCCCTTCAGA 180
Db 398 CCGTGCTTTTGATTTGACCAACAAGCCCATGCTGATGAATTTGACTGCCCTTCAGA 339
Oy 181 CTTGACACACACAGGAACCTTTTCCACAGTGGCACTTGCGCAATTAATAGTCTGAT 240
Db 338 CTTGACACACACAGGAACCTTTTCCACAGTGGCACTTGCGCAATTAATAGTCTGAT 279


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Qy 241 ATAGCATCTCTGACTTTTCTTTA CACTCTTCTGAGGAGTAATTCA CCGTTAGCACT 300
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Db 278 ATAGCATCTCTGACTTTTCTTTA CACTCTTCTGAGGAGTAATTCA CCGTTAGCACT 219
    |||||
Qy 301 TCCCATCAACAATTTTAAATTC CAACTCTGTCATCAACAAGTCTTGCCAA TG 360
    |||||
Db 218 TCCCATCAACAATTTTAAATTC CAACTCTGTCATCAACAAGTCTTGCCAA TG 159
    |||||
Qy 361 GTTTCATCACTCTCTGCAATGTTT TACCTGCCAGGTGATAGCAGCAATTGTC CA 420
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Db 158 GTTTCATCACTCTCTGCAATGTTT TACCTGCCAGGTGATAGCAGCAATTGTC CA 99
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Qy 421 CTTCAATATGGAACCAAGTATTA GAAGTTTCCA CATTGTTGATTAAGTGAATGTTA CA 480
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Db 98 CTTCAATATGGAACCAAGTATTA GAAGTTTCCA CATTGTTGATTAAGTGAATGTTA CA 39
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Qy 481 AGAAGCAGCTTGGGCTTCTCA GTTTCTTTTGGCTGT 518
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Db 38 AGAAGCAGCTTGGGCTTCTCA GTTTCTTTTGGCTGT 1
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Search completed: December 5, 2005, 03:19:40
 Job time : 205.756 secs

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OM nucleic - nucleic search, using sw model

Run on: December 4, 2005, 20:13:31 / Search time 682.751 Seconds
(without alignments)
9927.475 Million cell updates/sec

Title: US-10-750-262-1_COPY_66_1082

Perfect score: 1017
Sequence: 1 atcgaaagagagaagacat.....ctgagatcgtccagcttcg 1017

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 4996997 seqs, 333346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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- 2: geneseqn1980s:*
- 3: geneseqn2000s:*
- 4: geneseqn2001s:*
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- 12: geneseqn2004s:*
- 13: geneseqn2004s:*
- 14: geneseqn2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1017	100.0	1177	14	ADV73174 Human col
2	1017	100.0	1193	3	Az4249395 Human STR
3	1017	100.0	1193	5	AAD07067 Human six
4	1017	100.0	1193	8	ACD02597 CDNA enco
5	1017	100.0	1193	14	ADY92658 Human STR
6	1017	100.0	1195	4	AAH93924 P789P full
7	1017	100.0	1195	4	AAH93924 Human pro
8	1017	100.0	1195	5	ACA59968 Prostate
9	1017	100.0	1195	6	AB195531 Human P78
10	1017	100.0	1195	6	ABK92128 Prostate
11	1017	100.0	1195	8	ACC95695 Prostate
12	1017	100.0	1195	10	ADB75572 Prostate
13	1017	100.0	1195	10	ADB14328 Human pro
14	1017	100.0	1195	10	AAH93162 Human STR
15	1017	100.0	1195	10	ADG62763 Human pro
16	1017	100.0	1195	10	ADG62764 Human pro
17	1017	100.0	1195	11	ADN39812 Cancer/an
18	1017	100.0	1195	11	ADN39395 Cancer/an
19	1017	100.0	1195	11	ADP88258 Prostate

20	1017	100.0	1195	12	ADL06462 Human tum
21	1017	100.0	1195	12	ADL06436 Human tum
22	1017	100.0	1195	12	ADJ75176 Marker ge
23	1017	100.0	1201	13	ADX33625 Plant full
24	1017	100.0	1277	5	ADL46020 Human ova
25	1017	100.0	1294	4	AAK51978 Human pol
26	1017	100.0	1330	13	ADR14190 Human NF-
27	1017	100.0	1330	13	ADU06030 Novel bro
28	1017	100.0	1330	14	ADY15575 DNA encod
29	1017	100.0	1330	14	ADY19959 DNA encod
30	1004.4	98.8	1229	4	AAK52962 Human pol
31	1004	98.7	1198	8	ACD02628 STEAP-1 v
32	1002.4	98.6	1198	8	ACD02629 STEAP-1 v
33	988	97.1	1354	12	ADD22300 Human scf
34	870	85.5	1365	8	ACD02599 CDNA enco
35	870	85.5	1365	8	ACD02630 STEAP-1 v
36	866	85.2	1369	8	ACD02632 STEAP-1 v
37	864.4	85.0	1369	8	ACD02631 STEAP-1 v
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39	760.6	74.8	3627	3	AAZ49396 Human STR
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ALIGNMENTS

RESULT 1
ID ADV73174 standard; DNA; 1177 BP.
XX AC ADV73174;
XX DT 10-MAR-2005 (first entry)
XX DE Human colon tumor cell upregulated gene SEQ ID NO 15.
XX KW de; gene; cancer; neoplasm; cytostatic.
XX OS Homo sapiens.
XX PN WO2004110345-A2.
XX PD 23-DEC-2004.
XX PF 28-OCT-2003; 2003WO-US034019.
XX PR 29-OCT-2002; 2002US-0422176P.
XX PA (PHAA) PHARMACIA CORP.
XX PI Bourner MJ, Bu JJ, Head RD, Hippenmeyer PJ, Klein BK;
PI Mezzarella RA, Scaten NR;
XX WPI; 2005-03958/04.
XX P-PDB; ADV73212.
XX PT New antibody that immunospecifically binds to p-cadherin, useful in
XX preparing a composition for treating or preventing a cancer-associated
XX disorder.
XX PT Disclosure; SEQ ID NO 15; 257pp; English.
XX PS The invention relates to an antibody immunospecifically binds to p-
XX cadherin or its fragment. The antibody is useful in preparing a
XX composition for treating or preventing a cancer-associated disorder. The
XX present sequence represents a gene upregulated in human colon cancer
XX cells.

SO Sequence 1177 BP; 364 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1017; DB 14; Length 1177;
Best Local Similarity 100.0%; Pred. No. 2,6e-276;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGGAAGCGAAGGACATCAACAAAGAAATCTTGGAAATGAAAGCTTAGAGA 60
DB 66 ATGGAAGCGAAGGACATCAACAAAGAAATCTTGGAAATGAAAGCTTAGAGA 125
QY 61 AATTTAGAGAAGACATTTATGCAATAGACACGGGAGAGACCAAGCATGCTAAAAAGA 120
DB 126 AATTTAGAGAAGACATTTATGCAATAGACACGGGAGAGACCAAGCATGCTAAAAAGA 185
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DB 246 CTTGACGACACACAGGAACCTCTTCCAGAGTGGCACTTGGCAATTAAATAGCTGTATT 305
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DB 426 GTTTCATCACTCTCTTGGGATGTTTACCTGCGAGGTGTATAGACGAATTTGCCAA 485
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QY 661 TCTTGGGAATTTGGGAATTTGGCAATCTGCTGTGGCTGTGACATCTATTTCCATCT 720
DB 726 TCTTGGGAATTTGGGAATTTGGCAATCTGCTGTGGCTGTGACATCTATTTCCATCT 785
QY 721 GTGAGGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATTTG 780
DB 786 GTGAGGACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATTTG 845
QY 781 TCCCTTCTACTGGGCAATTAACGCAATTTGATTTTGGCCGGAATAGGATAGATATA 840
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QY 901 GTTCGTATATTTTAAAGCATATCTATCTGCGCATGCTTGAAGAAAGATCTGAAGATT 960
DB 966 GTTCGTATATTTTAAAGCATATCTATCTGCGCATGCTTGAAGAAAGATCTGAAGATT 1025
QY 961 AGACATGTTGGGAAGACGTCAACAAATTTAACAATGAGATAGTTCCCAAGTTG 1017
DB 1026 AGACATGTTGGGAAGACGTCAACAAATTTAACAATGAGATAGTTCCCAAGTTG 1082

```

RESULT 2
AA249395
ID AA249395 standard; cDNA; 1193 BP.

AC AA249395;
XX
DT 14-MAR-2000 (first entry)
XX

DE Human STRAP-1 cDNA.

XX KW Serpentine transmembrane antigen of the prostate; STRAP-1; prostate;
XX KW transmembrane domain; type IIa membrane protein; expression; cancer;
XX KW prostate cancer; bladder cancer; colon cancer; pancreatic cancer;
XX KW ovarian cancer; tumour antigen; immunisation; immune response; cellular;
XX KW humoral; anticancer vaccine; antibody; detection; diagnosis; prognosis;
XX KW monitoring; susceptibility; therapeutic inhibitor; drug targeting;
XX KW recombinant protein; ds.
XX

OS Homo sapiens.

XX FH Key Location/Qualifiers
XX FT CDS 64..1083
XX FT /tag= a
XX FT /product= "Human STRAP-1 (serpentine transmembrane
XX antigen of the prostate)"
XX

PN MO9962941-A2.

XX PD 09-DEC-1999.

XX PF 01-JUN-1999; 99WO-US012157.

XX PR 01-JUN-1998; 98US-0087520P.
XX PR 30-JUN-1998; 98US-0091183P.

XX PA (UROG-) UROGENESYS INC.

XX PA (AFAR/) AFAR D E.

XX PA (HUBER/) HUBERT R S.

XX PA (LEON/) LEONG K.

XX PA (RAIT/) RAITANO A B.

XX PA (SAFE/) SAFEFRAN D C.

XX PI Afar DE, Hubert RS, Leong K, Raitano AB, Saffran DC;

XX DR WPI: 2000-072832/06.

XX DR P-PSDB; AAY58194.

XX PT Novel proteins useful as diagnostic markers and therapeutic targets,
XX PT particularly for prostatic cancer.

XX PS Claim 4; Fig 1A; 83pp; English.

XX
CC This sequence represents cDNA encoding a novel human protein, STRAP-1
CC (serpentine transmembrane antigen of the prostate). STRAP-1 is the
CC prototype member of the STRAP family of proteins (AAY58194-Y58197) which
CC exhibit a high degree of structural conservation, but which show no
CC significant structural homology to known human proteins. The STRAP-1 gene
CC has been localised to chromosome 7p22. STRAP-1 is thought to be a type
CC IIa membrane protein and is expressed predominantly in prostate cells in
CC normal human tissues. Structurally, STRAP-1 is a 339 amino acid protein
CC characterised by six transmembrane domains and intracellular N- and C-
CC termini, suggesting that it folds in a "serpentine" manner into three
CC extracellular and two intracellular loops. STRAP-1 mRNA and protein
CC expression is maintained at high levels and throughout all stages of
CC prostate cancer. STRAP-1 mRNA and/or protein is also overexpressed in
CC certain other cancers, including bladder, colon, pancreatic and ovarian
CC cancer. The function of the STRAP proteins is not known. They may be ion
CC channels (from the presence of six transmembrane domains), a feature which
CC is shared by certain ion channels) or gap-junction proteins (from
CC immunohistochemical staining). STRAP-1 and STRAP-2 are cell-surface
CC tumour antigens. Immunisation with a STRAP protein induces cellular and

CC humoral immune responses against STRAP-expressing cells. STRAP proteins
 CC may be used to identify specific-binding agents, to produce anticancer
 CC vaccines and to generate specific antibodies. The antibodies may be used
 CC for detection, prognosis, and monitoring of cancers (or susceptibility to
 CC cancer), as therapeutic inhibitors or to target therapeutic agents to
 CC their site of action. STRAP nucleic acids may be used for recombinant
 CC protein production, as diagnostic and prognostic reagents, for
 CC identifying STRAP-expressing cells for screening inhibitors of STRAP
 CC expression and for therapeutic modulation/inhibition of STRAP expression.
 CC Since high levels of STRAP proteins are exposed on the cell surface, they
 CC are easily targeted by systemically administered agents, and because
 CC they are expressed mainly on prostatic epithelial cells, agents targeted
 CC to them should have minimal side effects on other tissues
 CC
 XX
 SQ Sequence 1193 BP; 382 A; 219 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1017; DB 3; Length 1193;
 Best Local Similarity 100.0%; Pred. No. 2,66-276;
 Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGCAAGAAAGCATCAACCAAGAAAGCTTGGAAATGAAGCTTAGAGA 60
 DB 64 ATGGAAGCAAGAAAGCATCAACCAAGAAAGCTTGGAAATGAAGCTTAGAGA 123
 QY 61 AATTAGAGAGAGCATTAATTGATTAAGAGACGGAGAGACAGCATGCTAAAAAGA 120
 DB 124 AATTAGAGAGAGCATTAATTGATTAAGAGACGGAGAGACAGCATGCTAAAAAGA 183
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 DB 184 CTTGTGCTTTTGGCATTGTCACCAAGCCGATGCTGATGAATTTGATGCTCCCTTCAGAA 243
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 DB 244 CTTGAGACACACAGGAAGCTTTCCAGAGTGACCTTGCATTAATAATAGCTGCTATT 303
 QY 241 ATAGCATCTGATCTTTTCTTACACTCTTCTGAGGAGATTAATCAACCTTTAGCACT 300
 DB 304 ATAGCATCTGATCTTTTCTTACACTCTTCTGAGGAGATTAATCAACCTTTAGCACT 363
 QY 301 TCCCATCAACATATTTTATTAATAATTCATCTCTGTCATCAACAAAGCTTGGCAATG 360
 DB 364 TCCCATCAACATATTTTATTAATAATTCATCTCTGTCATCAACAAAGCTTGGCAATG 423
 QY 361 GTTTCATCACTCTCTTGGCAATTTGTTTACCTGTCAGGTGATGAGAGCAATTTGCCAA 420
 DB 424 GTTTCATCACTCTCTTGGCAATTTGTTTACCTGTCAGGTGATGAGAGCAATTTGCCAA 483
 QY 421 CTTCAATATGGAACCAAGTATTAAGAGTTTCCATTTGTTGATTAAGTATTAACA 480
 DB 484 CTTCAATATGGAACCAAGTATTAAGAGTTTCCATTTGTTGATTAAGTATTAACA 543
 QY 481 AGAAGAGATTGGGCTTCTCAGTTTCTTTTCTGCTGATGCAATTAATAGTCTG 540
 DB 544 AGAAGAGATTGGGCTTCTCAGTTTCTTTTCTGCTGATGCAATTAATAGTCTG 603
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 DB 604 TCTTAACCAATGAGGGGATCCTACAGATPACAAGTTGCTAAACCTGGGATATCAACAGCTC 663
 QY 601 CAACAAATTAAGAAGATGCTGATGAGCATGATGTTTGGAGATGAGATTAATAGTCTG 660
 DB 664 CAACAAATTAAGAAGATGCTGATGAGCATGATGTTTGGAGATGAGATTAATAGTCTG 723
 QY 661 TCTTGGGAATTTGGGATTTGGCAATACCTGCTCTGTTGGCTGTCATCTATTTCATCT 720
 DB 724 TCTTGGGAATTTGGGATTTGGCAATACCTGCTCTGTTGGCTGTCATCTATTTCATCT 783
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 DB 784 GTGAGTACTCTTTGAGATGAGAGAAATTTCACTATATTTGAGACCAAGCTAGAAATGTT 843
 QY 781 TCCCTTACTGCGCACATACAGCATGATTTTTCCTGGAAATTAAGTATGATATATA 840

DB 844 TCCCTTACTGCGCACATACAGCATGATTTTTCCTGGAAATTAAGTATGATATATA 903
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 DB 904 AAACAATTTGATGATATACCTCCAACTTTATGATAGTCTGTTTCTTCCAAATGTT 963
 QY 901 GTCCGATATTTAAAGCATACTATTTCTGTCATGCTTGAAGAGAGATATGAAATTT 960
 DB 964 GTCCGATATTTAAAGCATACTATTTCTGTCATGCTTGAAGAGAGATATGAAATTT 1023
 QY 961 AGACATGTTGGAGAGAGCTGACCAAAATTAACAAAATGATATGTTCCAGTTG 1017
 DB 1024 AGACATGTTGGAGAGAGCTGACCAAAATTAACAAAATGATATGTTCCAGTTG 1080

RESULT 3
 AAD07067
 ID AAD07067 standard; cDNA; 1193 BP.

XX AAD07067;
 AC 06-AUG-2001 (first entry)
 DT
 DE Human six transmembrane epithelial antigen of prostate-1 clone 10 cDNA.
 XX
 XX Human; cytosolic; antiproliferative; vaccine; gene therapy;
 KW six transmembrane epithelial antigen of the prostate-1; STRAP-1;
 KW chromosome 7p22.3; cancer; prostate; colon; bladder; lung; ovarian;
 KW pancreatic; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT CDS
 FT Location/Qualifiers
 FT 64..1191
 FT /tag= a
 FT /product= "Human six transmembrane epithelial antigen of
 FT the prostate (STRAP)-1"
 FT /note= "CDS does not include stop codon"
 FT /transl_except= (pos:1078..1086, aa:Leu-Aasn)
 FT /note= "inframe stop codon alters the reading frame"
 FT /partial
 PN
 XX
 XX MO200140276-A2.
 PD
 XX 07-JUN-2001.
 XX
 XX 06-DEC-2000; 2000MO-US033040.
 PF
 XX 06-DEC-1999; 99US-00455486.
 PR
 XX
 XX (UROG-) UROGENESYS INC.
 PA
 XX Afar DEH, Hubert RS, Raitano AB, Saffran DC, Mitchell SC;
 PI Faris M, Jakobovits A;
 XX
 XX WPI: 2001-367804/38.
 DR P-PSDB; AAE02780.
 XX
 XX New STEAP (six transmembrane epithelial antigen of the prostate)
 PT protein, expressed in human cancers, useful for detecting and treating
 PT cancer.
 PS
 XX Example 2; Fig 1A-1B; 187bp; English.
 XX
 XX The present sequence is human six transmembrane epithelial antigen of the
 CC prostate (STEAP)-1 clone 10 cDNA. STEAP-1 gene is located on chromosome
 CC 7p22.3 and is used in gene therapy. Inhibiting the development or
 CC progression of a cancer (eg. prostate, colon, bladder, lung, ovarian and
 CC pancreatic) expressing STEAP or inhibiting growth or killing cells
 CC expressing STEAP in a patient, comprises administering a vaccine
 CC composition to the patient. Treating a patient with a cancer that


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D 184 CTTGTCCTTTTGCATTGTCACCAACAGCCCATGCTGATGAAATTGACCTGCTTCAGAA 243
Q 181 CTTGAGCAGACAGGAACTCTTTCACAGTGGGCACTTGCCAAATTAATAGTGTCTATT 240
D 244 CTTGAGCAGACAGGAACTCTTTCACAGTGGGCACTTGCCAAATTAATAGTGTCTATT 303
Q 241 ATAGCATCTGACTCTTTCTTACACTCTTCTGAGGGAAGTAATCACTTTCAGCAACT 300
D 304 ATAGCATCTGACTCTTTCTTACACTCTTCTGAGGGAAGTAATCACTTTCAGCAACT 363
Q 301 TCCCATCAACAATATTTTATTAATTTCCATCTCTGTCATCAACAATGCTTGCCATG 360
D 364 TCCCATCAACAATATTTTATTAATTTCCATCTCTGTCATCAACAATGCTTGCCATG 423
Q 361 GTTTCATCACTCTCTTGGCAATGGTTTACCTGACGAGTGTGATAGCAATTTGCCAA 420
D 424 GTTTCATCACTCTCTTGGCAATGGTTTACCTGACGAGTGTGATAGCAATTTGCCAA 483
Q 421 CTTCAATTAATGAAACCAAGTATTAAGAGTTTCCATGTTGGATTAAGTATTAACA 480
D 484 CTTCAATTAATGAAACCAAGTATTAAGAGTTTCCATGTTGGATTAAGTATTAACA 543
Q 481 AGAAAGCATTTGGGCTTCTGCTTTCTTTTGTCTGATCTGCAATTTATAGTCTG 540
D 544 AGAAAGCATTTGGGCTTCTGCTTTCTTTTGTCTGATCTGCAATTTATAGTCTG 603
Q 541 TCTTACCAATGAGGCGATCTTACAGATTAAGTGTCTTAACTGGGCAATATCAAGGTC 600
D 604 TCTTACCAATGAGGCGATCTTACAGATTAAGTGTCTTAACTGGGCAATATCAAGGTC 663
Q 601 CAACAAATTAAGAAAGATGCTGATTTGAGATGATTTTGGAGAAATGAGATTTATGTG 660
D 664 CAACAAATTAAGAAAGATGCTGATTTGAGATGATTTTGGAGAAATGAGATTTATGTG 723
Q 661 TCTTGGGAATTTGGGATTTGGCAATATCTGCTCTGTTGGCTGTGACATCTATTCATCT 720
D 724 TCTTGGGAATTTGGGATTTGGCAATATCTGCTCTGTTGGCTGTGACATCTATTCATCT 783
Q 721 GGTGATGATCTCTTTCATGAGAGAAATTTCACTATTTCAAGCAAGCTAGAAATGTT 780
D 784 GGTGATGATCTCTTTCATGAGAGAAATTTCACTATTTCAAGCAAGCTAGAAATGTT 843
Q 781 TCCCTTCTACTGGGCAATACAGCATTTGTTTCTGGAATTAAGTATTAAGATATA 840
D 844 TCCCTTCTACTGGGCAATACAGCATTTGTTTCTGGAATTAAGTATTAAGATATA 903
Q 841 AAACAATTTGTAATGTAATCACTTCACTTTTATGATAGCTTTTCTTCCAAATGTT 900
D 904 AAACAATTTGTAATGTAATCACTTCACTTTTATGATAGCTTTTCTTCCAAATGTT 963
Q 901 GTTCTGATATTTAAAGCATATCTATCTGCAATGCTTGGAGAAATAGTAAATG 960
D 964 GTTCTGATATTTAAAGCATATCTATCTGCAATGCTTGGAGAAATAGTAAATG 1023
Q 961 AGACATGATTTGGGAGAGAGTCAACAAATTAACAAATGAGATATGTTCCAGTTG 1017
D 1024 AGACATGATTTGGGAGAGAGTCAACAAATTAACAAATGAGATATGTTCCAGTTG 1080

RESULT 6
AAH93924
ID AAH93924 standard; cDNA; 1195 BP.
XX
AC AAH93924;
XX
DT 04-OCT-2001 (first entry)
XX
DE F789P full length cDNA sequence.
XX
KW Human; prostate cancer; prostate-specific; diagnosis; vaccine;
XX cytotoxic; gene therapy; metastasis; ss.
XX
OS Homo sapiens.
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XX
PN W0200151633-A2.
XX
XX 19-JUL-2001.
XX
XX 16-JAN-2001; 2001MO-US001574.
XX
XX 14-JAN-2000; 2000US-00483672.
XX
XX (CORI-) CORIXA CORP.
XX
XX Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skelky YAW;
PI Wang A, Meagher MJ;
XX WPI; 2001-425873/45.
XX
XX New polynucleotide encoding a prostate-specific protein, for diagnosing,
PT monitoring and treating prostate cancer in a patient and for use in
PT vaccines.
XX
XX Claim 1; Page 510; 543pp; English.
XX
XX The present invention describes polynucleotide sequences (I) which encode
CC prostate-specific proteins (II), (I) and (II) have cytostatic activity,
CC and can be used in vaccine production and gene therapy. (I), (II),
CC antibodies to (II), fusion proteins comprising (II), and isolated T cells
CC prepared using (I) or (II) are used to treat cancer in a patient. (I) and
CC the antibodies are also used in the detection of cancer in a patient. The
CC cancer that is diagnosed or treated is particularly prostate cancer. (I)
CC and (II) can be used in vaccines. The antibodies or (I) and (II) can also
CC monitoring the progression of cancer in a patient. (I) and (II) can also
CC be used to improve diagnostic and therapeutic methods for prostate
CC cancer. They can indicate the level of metastasis as well as the prostate
CC volume. AAH93357 to AAH93944 and AAH01115 to AAH01318 represent
CC polynucleotide and amino acid sequences used in the exemplification of
CC the present invention
XX
SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 1017; DB 4; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-276;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Q 1 ATGGAAGCAGAAAAGACATCAAAACCAAGAGAACTTTGGAAAATGAAAGCTTAGAGA 60
D 66 ATGGAAGCAGAAAAGACATCAAAACCAAGAGAACTTTGGAAAATGAAAGCTTAGAGA 125
Q 61 AATTAGAAGAAAGAGATTAATTGATAGGACAGGAGAGACAGCATGCTAATAAGA 120
D 126 AATTAGAAGAAAGAGATTAATTGATAGGACAGGAGAGACAGCATGCTAATAAGA 185
Q 121 CCTGTCTTTTGCATTTGCAACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCA 180
D 186 CCGTGTCTTTTGCATTTGCAACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCA 245
Q 181 CTTGAGCAGACAGGAACTCTTTCACAGTGGGCACTTGCCAAATTAATAGTGTCTATT 240
D 246 CTTGAGCAGACAGGAACTCTTTCACAGTGGGCACTTGCCAAATTAATAGTGTCTATT 305
Q 241 ATAGCATCTGACTCTTTCTTACACTCTTCTGAGGGAAGTAATCACTTTCAGCAACT 300
D 306 ATAGCATCTGACTCTTTCTTACACTCTTCTGAGGGAAGTAATCACTTTCAGCAACT 365
Q 301 TCCCATCAACAATATTTTATTAATTTCCATCTCTGTCATCAACAATGCTTGCCATG 360
D 366 TCCCATCAACAATATTTTATTAATTTCCATCTCTGTCATCAACAATGCTTGCCATG 425
Q 361 GTTTCATCACTCTCTTGGCAATGGTTTACCTGACGAGTGTGATAGCAATTTGCCAA 420
D 426 GTTTCATCACTCTCTTGGCAATGGTTTACCTGACGAGTGTGATAGCAATTTGCCAA 485
Q 421 CTTCAATTAATGAAACCAAGTATTAAGAGTTTCCATGTTGGATTAAGTATTAACA 480
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Db 486 CTTGATATATGGAACCAAGTATTAAGAAGTTTCCACATTTGGTGGATTAAGTGAATGTTAAACA 545
Qy 481 AGAAGACAGTTTGGGCTTCTCAGTTTCTTTTTCCTGACTGACATGCAATTTATAGTCTG 540
Db 546 AGAAGACAGTTTGGGCTTCTCAGTTTCTTTTTCCTGACTGACATGCAATTTATAGTCTG 605
Qy 541 TCTTACCAGTGAAGGAGTCTTACAGATACAGATGCTGAAGCTGGAGATATCAAGAGTCTC 600
Db 606 TCTTACCAGTGAAGGAGTCTTACAGATACAGATGCTGAAGCTGGAGATATCAAGAGTCTC 665
Qy 601 CAACAAATTAAGAAGATGCTGAGATTTGAGCATGATTTGGAGATGAGATTTATGTG 660
Db 666 CAACAAATTAAGAAGATGCTGAGATTTGAGCATGATTTGGAGATGAGATTTATGTG 725
Qy 661 TCTTGGAGATTTGGGATTTGGCAATCTGCTCTGTGGCTGTGACATCTATTTCCACT 720
Db 726 TCTTGGAGATTTGGGATTTGGCAATCTGCTCTGTGGCTGTGACATCTATTTCCACT 785
Qy 721 GTGAGTGAATCTTTGACATGAGAGATTTCACTATTTTCAAGACAGATGAGATTTGTT 780
Db 786 GTGAGTGAATCTTTGACATGAGAGATTTCACTATTTTCAAGACAGATGAGATTTGTT 845
Qy 781 TCCCTTCTACTGGGCAATACAGCATGATTTTTCCTGGAATTAAGTATGATATA 840
Db 846 TCCCTTCTACTGGGCAATACAGCATGATTTTTCCTGGAATTAAGTATGATATA 905
Qy 841 AAACATTTTGTATGATATACACTCTCACTTTTATGATGCTGTTTCTTCCATTTGTT 900
Db 906 AAACATTTTGTATGATATACACTCTCACTTTTATGATGCTGTTTCTTCCATTTGTT 965
Qy 901 GTCTGTATTTTAAAGCATATATTCCTGACATGCTTGAAGAGATATCTGAAGATT 960
Db 966 GTCTGTATTTTAAAGCATATATTCCTGACATGCTTGAAGAGATATCTGAAGATT 1025
Qy 961 AGACATGTTTGGAGAGAGTCAACCAATTTAACTGAGATGTTTCCAGTTG 1017
Db 1026 AGACATGTTTGGAGAGAGTCAACCAATTTAACTGAGATGTTTCCAGTTG 1082

RESULT 7
AAS64160
ID AAS64160 standard; cDNA; 1195 BP.
XX
AC AAS64160;
XX
DT 29-JAN-2002 (first entry)
XX
DE Human prostate cDNA sequence #590.
XX
KW Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.
XX
OS Homo sapiens.
XX
PN W0200173032-A2.
XX
PD 04-OCT-2001.
XX
PF 27-MAR-2001; 2001WO-US009919.
XX
PR 27-MAR-2000; 2000US-00536857.
PR 09-MAY-2000; 2000US-00568100.
PR 12-MAY-2000; 2000US-00570737.
PR 13-JUN-2000; 2000US-00593793.
PR 27-JUN-2000; 2000US-00605783.
PR 09-AUG-2000; 2000US-00636215.
PR 29-AUG-2000; 2000US-00651236.
PR 06-SEP-2000; 2000US-00657279.
PR 02-OCT-2000; 2000US-00679426.
PR 10-OCT-2000; 2000US-00685166.
PR 09-NOV-2000; 2000US-00709729.
XX
PA (CORI-) CORIXA CORP.
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XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
PI Fanger GB, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;
PI Li SX, Wang A, Skelky YAM, Hepler WT, Henderson RA;
DR WPI; 2001-639232/73.
DR P-PSDB; AAU69927.
PT New human prostate-specific polypeptides and polynucleotides useful for
PT the diagnosis and treatment of cancer, especially prostate cancer.
XX
PS Claim 1; Page 548; 579pp; English.
XX
CC The invention relates to isolated prostate-specific polynucleotides,
CC polypeptides, fusion proteins of the polypeptides, antibodies raised
CC against the polypeptides (or antigenic epitopes derived from them) and
CC antigen-presenting cells expressing the polypeptides. The antibodies are
CC useful for detecting the presence of cancer, especially prostate cancer.
CC The polypeptides, polynucleotides and the antigen-presenting cells are
CC useful for stimulating and/or expanding T cells specific for a tumour
CC protein, and for inhibiting the development of cancer especially prostate
CC cancer. Compositions comprising the polynucleotide and/or polypeptide are
CC useful for stimulating an immune response, and for treating cancer. The
CC oligonucleotide is useful for detecting cancer. The present sequence is a
XX prostate specific polynucleotide of the invention
SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
Query Match 100.0%; Score 1017; DB 4; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-276;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGGAAGGAGAAAGACATCAACAACCAAGAACTTTGAAAAATGAAGCTTAGAGA 60
Db 66 ATGGAAGGAGAAAGACATCAACAACAAGAACTTTGAAAAATGAAGCTTAGAGA 125
Qy 61 AATTGAGAGAGACGATTTATTTGATTAAGACACGGAGAGACGACATGCTTAAAGA 120
Db 126 AATTGAGAGAGACGATTTATTTGATTAAGACACGGAGAGACGACATGCTTAAAGA 185
Qy 121 CCTGTGCTTTTGATTTGACACCAACAGCCCATGCTGATGATTTGATGCTGCTTCAAA 180
Db 186 CCTGTGCTTTTGATTTGACACCAACAGCCCATGCTGATGATTTGATGCTGCTTCAAA 245
Qy 181 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTGGCAATTTAATAGTGCAT 240
Db 246 CTTGACGACACACAGGAACTCTTTCCACAGTGGCACTTGGCAATTTAATAGTGCAT 305
Qy 241 ATAGCATCTCTGACTTTTCTTTTACCTCTTCTGAGGAAAGTAATGACCTTTAGCACT 300
Db 306 ATAGCATCTCTGACTTTTCTTTTACCTCTTCTGAGGAAAGTAATGACCTTTAGCACT 365
Qy 301 TCCCATCAACAATATTTTATTAATAATTCATCTCTGCTATCAACAAGCTTGGCAAT 360
Db 366 TCCCATCAACAATATTTTATTAATAATTCATCTCTGCTATCAACAAGCTTGGCAAT 425
Qy 361 GTTTCATCACTCTCTTGGAGATTTGTTTACCTGCGCAGGTGTATAGAGCAATTTGCCAA 420
Db 426 GTTTCATCACTCTCTTGGAGATTTGTTTACCTGCGCAGGTGTATAGAGCAATTTGCCAA 485
Qy 421 CTTCATATGGAACCAAGTATTAAGAAGTTTCCACATTTGTTGATTAAGTATTAACA 480
Db 486 CTTCATATGGAACCAAGTATTAAGAAGTTTCCACATTTGTTGATTAAGTATTAACA 545
Qy 481 AGAAGACAGTTTGGGCTTCTCAGTTTCTTTTTCCTGACTGACATGCAATTTATAGTCTG 540
Db 546 AGAAGACAGTTTGGGCTTCTCAGTTTCTTTTTCCTGACTGACATGCAATTTATAGTCTG 605
Qy 541 TCTTACCAGTGAAGGAGTCTTACAGATACAGATGCTGAAGCTGGAGATATCAAGAGTCTC 600
Db 606 TCTTACCAGTGAAGGAGTCTTACAGATACAGATGCTGAAGCTGGAGATATCAAGAGTCTC 665
Qy 601 CAACAAATTAAGAAGATGCTGAGATTTGAGCATGATTTGGAGATGAGATTTATGTG 660
```


OY	541	TCTTACCAGATGAGGCGATCCATACAGATACAAAGTTGCTAAATCTGGGCAATCAACAGTTC	600
Db	606	TCTTACCAGATGAGGCGATCCATACAGATACAAAGTTGCTAAATCTGGGCAATCAACAGTTC	665
OY	601	CAACAAAATAAAGAAGATGCGCTGGAATTGAGCAGATGATGTTTGAGAGATGAGATTTATGTG	660
Db	666	CAACAAAATAAAGAAGATGCGCTGGAATTGAGCAGATGATGTTTGAGAGATGAGATTTATGTG	725
OY	661	TCTCTGGGAATTGCGGGAATTGGCAATCTGGCTCTGTTGGCTGTGACATCTATTTCCACT	720
Db	726	TCTCTGGGAATTGCGGGAATTGGCAATCTGGCTCTGTTGGCTGTGACATCTATTTCCACT	785
OY	721	GTGAGTGACTCTTTGACATGAGAGAAATTCACATATTTACAGACAAAGCTAGGAATGTT	780
Db	786	GTGAGTGACTCTTTGACATGAGAGAAATTCACATATTTACAGACAAAGCTAGGAATGTT	845
OY	781	TCCCTTCTACTGGGCAATACAGCGCATTTATTTTGGCTCTGGAATTAAGTGATAGATATA	840
Db	846	TCCCTTCTACTGGGCAATACAGCGCATTTATTTTGGCTCTGGAATTAAGTGATAGATATA	905
OY	841	AAACAAATTTGATGATATACACCTTCAACTTTTATGATAGCGTGTTCCTTCCAAATGTT	900
Db	906	AAACAAATTTGATGATATACACCTTCAACTTTTATGATAGCGTGTTCCTTCCAAATGTT	965
OY	901	GTCTGATATTTTAAAGCATATCTATTCTGCGCATGCTTGAGAGAAAGATACAGAAATT	960
Db	966	GTCTGATATTTTAAAGCATATCTATTCTGCGCATGCTTGAGAGAAAGATACAGAAATT	1025
OY	961	AGACATGTTGGGAAGACGTACACAAAATTTAAACAAAATGAGATATGTTCCCAAGTG	1017
Db	1026	AGACATGTTGGGAAGACGTACACAAAATTTAAACAAAATGAGATATGTTCCCAAGTG	1082

RESULT 9	ID	ABL95531 standard; cDNA; 1195 BP.
XX	AC	ABL95531;
XX	DT	19-JUL-2002 (first entry)
XX	DE	Human P789P cDNA sequence SEQ ID NO 878.
XX	KM	Human; cancer; prostate cancer; vaccine; cytostatic; immunostimulant;
XX	XX	gene therapy; gene; ss.
XX	OS	Homo sapiens.
XX	PN	US2002022248-A1.
XX	PD	21-FEB-2002.
PF	12-JAN-2001;	2001US-00759143.
PR	25-FEB-1997;	97US-00806099.
PR	01-AUG-1997;	97US-00904804.
PR	10-FEB-1998;	98US-00020956.
PR	25-FEB-1998;	98US-00030607.
PR	14-JUL-1998;	98US-00115453.
PR	23-SEP-1998;	98US-00159812.
PR	05-JAN-1999;	99US-00232149.
PR	09-APR-1999;	99US-00288946.
PR	13-JUL-1999;	99US-00352616.
PR	12-NOV-1999;	99US-00439313.
PR	18-NOV-1999;	99US-00436866.
PR	14-JAN-2000;	2000US-00483672.
PR	27-MAR-2000;	2000US-00536857.
PR	09-MAY-2000;	2000US-00568100.
PR	12-MAY-2000;	2000US-00570737.
PR	13-JUN-2000;	2000US-00593793.
PR	27-JUN-2000;	2000US-00605783.
PR	10-AUG-2000;	2000US-00636215.

PR 29-AUG-2000; 2000US-00651236.
PR 06-SEP-2000; 2000US-00657279.
PR 02-OCT-2000; 2000US-00679426.
PR 10-OCT-2000; 2000US-00685166.

PA	(XUJ)/	XU J.
PA	(DILL)/	DILLON D. C.
PA	(MITC)/	MITCHAM J. L.
PA	(HARL)/	HARLOCKER S. L.
PA	(JIAN)/	JIANG Y.
PA	(KALO)/	KALOS G. D.
PA	(FANG)/	FANGER G. R.
PA	(RETT)/	REITTER M. W.
PA	(STOL)/	STOLK J. A.
PA	(DAYC)/	DAY C. H.
PA	(VEDV)/	VEDEVICK T. S.
PA	(CART)/	CARTER D.
PA	(LISI)/	LI S. X.
PA	(WANG)/	WANG A.
PA	(SEIK)/	SEIKRY Y. A. W.
PA	(HEPL)/	HEPLER W. T.
PA	(HEND)/	HENDERSON R. A.

PI Xu J, Dillon DC, Mitcham JI, Harlocker SL, Jiang Y, Kaos MD,
PI Fanger GR, Rector MW, Stolk JA, Day CH, Veddyk TS, Carter D,
PI Li SX, Wang A, Skeiky YAM, Hepler WT, Henderson RA,
XX
DR WPI, 2002-255649/30.

PT New prostate-specific polynucleotides for diagnosing and treating
PT diseases, in particular prostate cancer, and as markers for the
PT progression of cancer.

PS Claim 1; SEQ ID NO 878; 87pp; English.

CC The present invention provides prostate-specific coding sequences and
CC their encoded proteins. These can be used in the diagnosis and treatment
CC of cancers, particularly prostate cancer. The present sequence is a cDNA
CC described in the invention

SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match	100.0%	Score 1017;	DB 6;	Length 1195;
Best Local Similarity	100.0%;	Pred. No. 2.6e-26;		
Matches 1017;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy	1	ATGGAAGACAAAAAGACATCAACAAACGAAAGAACTTTGGAAATATGAAGCCCTAGAGA	60
Dp	66	ATGGAAAGACAAAAAGACATCAACAAACGAAAGAACTTTGGAAATATGAAGCCCTAGAGA	125
Qy	61	AATTTAGAAAGACGATTAATTTGCATNAGGACAACGGAGAGACACGACATGCTAAAAAGA	120
Dp	126	AATTTAGAAAGACGATTAATTTGCATNAGGACAACGGAGAGACACGACATGCTAAAAAGA	185
Qy	121	CCGTGCTTTTGGCATTTTGCACCAACAGCCCATGTGTGATGATTTTGACTGCCCCTCAGAA	180
Dp	186	CCGTGCTTTTGCATTTTGCACCAACAGCCCATGTGTGATGATTTTGACTGCCCCTCAGAA	245
Qy	181	CTTCAGGACACACAGGAACTCTTTCACAGTGGGACCTTGCCAATTAATAATAGCGCAATT	240
Dp	246	CTTCAGGACACACAGGAACTCTTTCACAGTGGGACCTTGCCAATTAATAATAGCGCTAATT	305
Qy	241	ATAGCATCTCTACCTTTCTTTACACTCTTCTGAGGGAAGTAATTCACCCCTTAGCAACT	300
Dp	306	ATAGCATCTCTACCTTTCTTTACACTCTTCTGAGGGAAGTAATTCACCCCTTAGCAACT	365
Qy	301	TCCCATCAACAAATATTTTATTAATAATTCGAATCTGTGATCAACAAAGCTTGGCAATG	360
Dp	366	TCCCATCAACAAATATTTTATTAATAATTCGAATCTGTGATCAACAAAGCTTGGCAATG	425
Qy	361	GTITTCATATACCTCTTGGCATTTGGTTTAACTGCAAGTGTGATNAGAGGAATTTGCCAA	420
Dp	426	GTITTCATATACCTCTTGGCATTTGGTTTAACTGCAAGTGTGATNAGAGGAATTTGCCAA	485

QY 421 CTTCAATTAATGGAACCAAGTATTAAGAGTTTCCACATGGTGGATTAAGTATGTTAACA 480
DB 486 CTTCAATTAATGGAACCAAGTATTAAGAGTTTCCACATGGTGGATTAAGTATGTTAACA 545
QY 481 AGAAAGCAAGTTGGGCTTCTGAGTTCTTTTGGCTGTAAGTCAATGCAATTTATAGTCG 540
DB 546 AGAAAGCAAGTTGGGCTTCTGAGTTCTTTTGGCTGTAAGTCAATGCAATTTATAGTCG 605
QY 541 TCTTACCCCAATAGGCGATCTCAAGATACAGATGCTAAAGTGGGCAATCAACAGTC 600
DB 606 TCTTACCCCAATAGGCGATCTCAAGATACAGATGCTAAAGTGGGCAATCAACAGTC 665
QY 601 CAACAAATTAAGAAAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 660
DB 666 CAACAAATTAAGAAAGATGCTGATGATGATGATGATGATGATGATGATGATGATGATG 725
QY 661 TCTTGGGAAATGTTGGGATTTGGCAATACCTGCTGTTGGTGTGATCATCTTTCATCT 720
DB 726 TCTTGGGAAATGTTGGGATTTGGCAATACCTGCTGTTGGTGTGATCATCTTTCATCT 785
QY 721 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 780
DB 786 GTGAGTGAATCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGCTAGGAATGTT 845
QY 781 TCCCTTCTACTGCGCACAATACACGCAATGATTTTTCCTGGAATTAAGTATGATATA 840
DB 846 TCCCTTCTACTGCGCACAATACACGCAATGATTTTTCCTGGAATTAAGTATGATATA 905
QY 841 AAACAATTTGTAATGTAATACACTCCAACTTTTATATATGCTGTTTCTTCCAATGTT 900
DB 906 AAACAATTTGTAATGTAATACACTCCAACTTTTATATATGCTGTTTCTTCCAATGTT 965
QY 901 GTCCGATATTTTAAAGCATATCTATCTGCGATGCTTGAAGAAAGATGATGATGAT 960
DB 966 GTCCGATATTTTAAAGCATATCTATCTGCGATGCTTGAAGAAAGATGATGATGAT 1025
QY 961 AGACATGTTGGGAGAGCTGACCAAAATTAACAAAAGTGAATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGGAGAGCTGACCAAAATTAACAAAAGTGAATATGTTCCAGTTG 1082

RESULT 10
ABK92128
ID ABK92128 standard; DNA; 1195 BP.
XX
AC ABK92128;
XX
DT 15-AUG-2002 (first entry)
XX
DE Prostate cancer-associated DNA sequence #14.
XX
KM Prostate cancer; prostate tumour tissue; human; mammal; cytostatic;
XX gene therapy; gene; ds.
XX
OS Mammalia.
XX
PN WO200230268-A2.
XX
PD 18-APR-2002.
XX
PF 12-OCT-2001; 2001WO-US032045.
XX
PR 13-OCT-2000; 2000US-00687576.
XX
PR 08-DEC-2000; 2000US-00733288.
XX
PR 08-DEC-2000; 2000US-00733742.
XX
PR 24-JAN-2001; 2001US-0263957P.
XX
PR 16-MAR-2001; 2001US-0276791P.
XX
PR 16-MAR-2001; 2001US-0276888P.
XX
PR 06-APR-2001; 2001US-0281922P.
XX
PR 24-APR-2001; 2001US-0286214P.
XX
PR 30-APR-2001; 2001US-00847046.
XX
PR 04-MAY-2001; 2001US-0285859P.

XX
PA (EOSB-) EOS BIOTECHNOLOGY INC.
XX
PI Gish KC, Mack DH, Wilson KE, Afar D, Hevezi P;
XX
DR MPI: 2002-471335/50.
DR P-PSDB; AB61813.
PT
PT Detecting a prostate cancer-associated transcript in a cell in a patient,
PT useful for diagnosing prostate cancer (PC) or screening modulators of PC,
PT by determining if prostate cancer-associated genes are expressed in a
PT prostate tissue.
PS
PS Claim 22; Page 311-312; 436pp; English.
XX
XX
CC The present invention relates to methods of detecting a prostate cancer-
CC associated transcript in a cell from a patient. The method comprises
CC contacting a biological sample from the patient with prostate cancer-
CC associated polynucleotides (designated PC genes) that selectively
CC hybridize to a sequence that is at least 80% identical to them. The
CC prostate cancer-associated polynucleotide sequences are differentially
CC expressed in prostate tumour tissue or in prostate cancer and are derived
CC from the tissues of various organisms such as humans or other mammals
CC (e.g. mice, sheep and dogs). The methods of the invention are useful for
CC diagnosing and treating prostate cancer in mammals. The prostate cancer-
CC associated genes are useful for diagnosing or treating prostate cancer,
CC as well as for identifying modulators of prostate cancer or agents that
CC inhibit prostate cancer. The nucleic acid sequences are particularly
CC useful in gene therapy, as a vaccine or in antisense applications.
CC ABK92115-ABK92263 represent prostate cancer-associated polynucleotide
CC sequences
XX
SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
XX
Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-276;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGCAGAAAAGACATCAACCAAGAAAGCTTTGGAAAATGAAGCTTAGAGA 60
DB 66 ATGGAAGCAGAAAAGACATCAACCAAGAAAGCTTTGGAAAATGAAGCTTAGAGA 125
QY 61 AATTTAAGAAAGAGATATTTTGATTAAGGACAGGGAGAGACCGAGATGCTAAAAAGA 120
DB 126 AATTTAAGAAAGAGATATTTTGATTAAGGACAGGGAGAGACCGAGATGCTAAAAAGA 185
QY 121 CCTGTGCTTTTGCATTTGACCAACAGCCCATGCTGAATTTGACTGCGCTTCAGAA 180
DB 186 CCGTGTCTTTTGCATTTGACCAACAGCCCATGCTGAATTTGACTGCGCTTCAGAA 245
QY 181 CTTCAGACACACAGAAAGCTTTTCCACAGTGGCACTTGGCAATTAATAGCTGTATT 240
DB 246 CTTCAGACACACAGAAAGCTTTTCCACAGTGGCACTTGGCAATTAATAGCTGTATT 305
QY 241 ATAGCATCTGACCTTTCTTCACTCTGCTGAGAGGAATTAATCACCTTTAGCAACT 300
DB 306 ATAGCATCTGACCTTTCTTCACTCTGCTGAGAGGAATTAATCACCTTTAGCAACT 365
QY 301 TCCCATCAACATATTTTATTAATTCCAATCTGTGCATCAACAAGTCTTGGCAATG 360
DB 366 TCCCATCAACATATTTTATTAATTCCAATCTGTGCATCAACAAGTCTTGGCAATG 425
QY 361 GTTTCATCACTCTCTTGGCATTTGTTAAGCTGCAAGTGTATGACCAATTTGCCAA 420
DB 426 GTTTCATCACTCTCTTGGCATTTGTTAAGCTGCAAGTGTATGACCAATTTGCCAA 485
QY 421 CTTCAATTAATGGAACCAAGTATTAAGAGTTTCCACATGGTGGATTAAGTATGTTAACA 480
DB 486 CTTCAATTAATGGAACCAAGTATTAAGAGTTTCCACATGGTGGATTAAGTATGTTAACA 545
QY 481 AGAAAGCAAGTTGGGCTTCTGAGTTCTTTTGGCTGTAAGTCAATGCAATTTATAGTCG 540
DB 546 AGAAAGCAAGTTGGGCTTCTGAGTTCTTTTGGCTGTAAGTCAATGCAATTTATAGTCG 605

QY 541 TCTTACCAATGAGCGATCTCTACAGATACAGATTGCTAAAGTGGGATATCAACAGGTC 600
 DB 606 TCTTACCAATGAGCGATCTCTACAGATACAGATTGCTAAAGTGGGATATCAACAGGTC 665
 QY 601 CAACAAATTAAGAAGATGCTGATGATGAGCATGATGTTGGAGATGAGATTTATGTG 660
 DB 666 CAACAAATTAAGAAGATGCTGATGATGAGCATGATGTTGGAGATGAGATTTATGTG 725
 QY 661 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGGATCATATTCACATCT 720
 DB 726 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGGATCATATTCACATCT 785
 QY 721 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGTAAATGTT 780
 DB 786 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGTAAATGTT 845
 QY 781 TCCCTTCTACTGGGACATATACAGCATTTGATTTTGGCTGGAAATTAAGATATGATATA 840
 DB 846 TCCCTTCTACTGGGACATATACAGCATTTGATTTTGGCTGGAAATTAAGATATGATATA 905
 QY 841 AAACAAATTTGATGATATACACCTCCAACTTTATGATGATGTTTCTTCCAAATGTT 900
 DB 906 AAACAAATTTGATGATATACACCTCCAACTTTATGATGATGTTTCTTCCAAATGTT 965
 QY 901 GTCTGATATTTTAAAGCATACTATTTCTGCGCATGCTTGAAGAAAGATATGAGATT 960
 DB 966 GTCTGATATTTTAAAGCATACTATTTCTGCGCATGCTTGAAGAAAGATATGAGATT 1025
 QY 961 AGACATGTTGGAGAGAGCTGACCAAAATTAACAAAATGATATGTTCCAGTTG 1017
 DB 1026 AGACATGTTGGAGAGAGCTGACCAAAATTAACAAAATGATATGTTCCAGTTG 1082

RESULT 11
 ID ACC95695 standard; cDNA; 1195 BP.
 XX ACC95695;
 AC 28-AUG-2003 (first entry)
 XX
 DT Prostate tumour specific cDNA sequence SEQ ID 878.
 XX
 DE Cytostatic; gene therapy; prostate-specific protein; PSP; human;
 XX
 KW Immune response; prostate cancer; ss.
 XX
 OS Homo sapiens.
 XX
 PN MO200289747-A2.
 XX
 PD 14-NOV-2002.
 XX
 PF 09-MAY-2002; 2002MO-US014753.
 XX
 PR 09-MAY-2001; 2001US-00852911.
 XX
 PR 29-JUN-2001; 2001US-00895814.
 PR 10-DEC-2001; 2001US-00012896.
 XX
 PA (CORI-) CORIXA CORP.
 XX
 PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Henderson RA,
 PI Kalos ME, Fanger GR, Retter MW, Stolk JA, Day CH, Vedrick TS,
 PI Carter D, Li SX, Wang A, Skeiky YAW, Hepler WT, Hural J,
 PI McNeill PD, Houghton RL, Vinals Y De Baasolsc, Foy TM, Macanabe Y,
 PI Deng T;
 DR MPI; 2003-167130/16.
 PT New prostate-specific proteins and genes, useful in gene therapy,
 PT particularly for stimulating an immune response in a patient, or treating
 PT prostate cancer in a patient, as well as for diagnosing prostate cancer
 PT in a patient.

XX Example 5; Page 617-618; 691pp; English.
 PS The present invention relates to novel prostate-specific proteins (PSP)
 XX and their coding sequences. The PSPs and their coding sequences are
 CC useful for stimulating an immune response in a patient, or for treating
 CC prostate cancer in a patient and for determining, detecting or diagnosing
 CC the presence of a cancer in a patient. The present sequence was used to
 CC illustrate the invention
 XX
 SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
 Query Match 100.0%; Score 1017; DB 8; Length 1195;
 Best Local Similarity 100.0%; Pred. No. 2,6e-276;
 Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGGAAGCGAAGAAAGCATCAAAACCAAGAACTTTGAAATGAAAGCTTAGAGA 60
 DB 66 ATGGAAGCGAAGAAAGCATCAAAACCAAGAACTTTGAAATGAAAGCTTAGAGA 125
 QY 61 AATTTGAAGAAGACGATTTATTTGATTAAGGACACGGGAGAGACAGCATGCTAAAAGA 120
 DB 126 AATTTGAAGAAGACGATTTATTTGATTAAGGACACGGGAGAGACAGCATGCTAAAAGA 185
 QY 121 CCTGTCCTTTGCAATTTGACCAAGAGCCCATGATGAAATTTGACTGCCCTTCAGAA 180
 DB 186 CTTGTCCTTTGCAATTTGACCAAGAGCCCATGATGAAATTTGACTGCCCTTCAGAA 245
 QY 181 CTTGAGACACACAGAGAACTTTTCCACAGTGGCATTTGCCAATTAATAGCTCTATT 240
 DB 246 CTTGAGACACACAGAGAACTTTTCCACAGTGGCATTTGCCAATTAATAGCTCTATT 305
 QY 241 ATAGCATCTCTGCTTTCTTTTACACTCTTGAAGGAGATATTAACCTTTAGCACT 300
 DB 306 ATAGCATCTCTGCTTTCTTTTACACTCTTGAAGGAGATATTAACCTTTAGCACT 365
 QY 301 TCCCATCAACAAATATTTTAAATAATTCATCTGATCAACAAAGCTTGGCAATG 360
 DB 366 TCCCATCAACAAATATTTTAAATAATTCATCTGATCAACAAAGCTTGGCAATG 425
 QY 361 GTTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGTATAGCAGCAATTTGCCA 420
 DB 426 GTTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGTATAGCAGCAATTTGCCA 485
 QY 421 CTTCAATAAGGAACCAAGATTAAGAGTTTCCACATTTGTTGATTAAGTATGATTAACA 480
 DB 486 CTTCAATAAGGAACCAAGATTAAGAGTTTCCACATTTGTTGATTAAGTATGATTAACA 545
 QY 481 AGAAGCAGTTTGGGCTCTCAAGTTCTTTTGTGTATCTGATCAATTTTATAGTCTG 540
 DB 546 AGAAGCAGTTTGGGCTCTCAAGTTCTTTTGTGTATCTGATCAATTTTATAGTCTG 605
 QY 541 TCTTACCAATGAGCGATCTCTACAGATACAGATTGCTAAAGTGGGATATCAACAGGTC 600
 DB 606 TCTTACCAATGAGCGATCTCTACAGATACAGATTGCTAAAGTGGGATATCAACAGGTC 665
 QY 601 CAACAAATTAAGAAGATGCTGATGATGAGCATGATGTTGGAGATGAGATTTATGTG 660
 DB 666 CAACAAATTAAGAAGATGCTGATGATGAGCATGATGTTGGAGATGAGATTTATGTG 725
 QY 661 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGGATCATATTCACATCT 720
 DB 726 TCTCTGGGAATTTGGGATTTGGCAATCTGCTCTGTTGGCTGGATCATATTCACATCT 785
 QY 721 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGTAAATGTT 780
 DB 786 GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATTCAGAGCAAGTAAATGTT 845
 QY 781 TCCCTTCTACTGGGACATATACAGCATTTGATTTTGGCTGGAAATTAAGATATGATATA 840
 DB 846 TCCCTTCTACTGGGACATATACAGCATTTGATTTTGGCTGGAAATTAAGATATGATATA 905
 QY 841 AAACAAATTTGATGATATACACCTCCAACTTTATGATGATGTTTCTTCCAAATGTT 900

Db 906 AAAAATTTGTATGTATACCTCACTTATATATAGTGTCTTCTTCCAATTTGT 965
Qy 901 GTTCCTGATTTTAAAGCACTATTTCTGCGCATGTTAGAGAAAGTACTGAAGATT 960
Db 966 GTCCGATATTTTAAAGCACTATTTCTGCGCATGTTAGAGAAAGTACTGAAGATT 1025
Qy 961 AGACATGTTGGGAGAGAGCTCAACCAAAATTAACAAAGTATGTTCCAGTTG 1017
Db 1026 AGACATGTTGGGAGAGAGCTCAACCAAAATTAACAAAGTATGTTCCAGTTG 1082

RESULT 12
ADB75572

ID ADB75572 standard; cDNA; 1195 BP.

AC ADB75572;

DT 04-DEC-2003 (first entry)

DE Prostate cancer marker cDNA.

KW Prostate; cancer; cytostatic; gene therapy; marker; ss.

OS Homo sapiens.

PN W02003009814-42.

PD 06-FEB-2003.

PF 25-JUL-2002; 2002WC-US023913.

PR 25-JUL-2001; 2001US-0307982P.

PR 22-AUG-2001; 2001US-0314356P.

PR 25-SEP-2001; 2001US-0325020P.

PR 12-DEC-2001; 2001US-0341746P.

PR 05-MAR-2002; 2002US-0362158P.

XX (MILL-) MILLENNIUM PHARM INC.

XX Schlegel R, Monahan JE, Endege WO, Gannavarapu M, Gorbacheva B;

XX Hoerish S, Kamatkar S, Monsey AM, Glatk K, Zhao X, Anderson D;

XX MPI; 2003-248033/24.

XX New nucleic acid molecule, useful for diagnosing or treating prostate

XX cancer.

XX Disclosure; SEQ ID NO 396; 99pp; English.

XX The invention relates to newly discovered cancer markers associated with

XX the cancerous state of prostate cells. Also disclosed is a method of

XX assessing whether a patient is afflicted with prostate cancer. The method

XX of the invention involves assessing whether a patient is afflicted with

XX prostate cancer by comparing the level of expression of a marker in a

XX patient sample and the normal level of expression of the marker in a

XX control non-prostate cancer sample, where a significant increase in the

XX level of expression of the marker in the patient sample and the normal

XX level indicates that the patient is afflicted with prostate cancer.

XX Nucleic acids of the invention are useful for diagnosing or treating

XX prostate cancer, and may be useful in gene therapy. Sequences given in

XX ADB75177-ADB75531 represent marker cDNA and proteins. Note: The sequence

XX data for this patent did not form part of the printed specification, but

XX was obtained in electronic format directly from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

XX Query Match 100.0%; Score 1017; DB 10; Length 1195;

XX Best Local Similarity 100.0%; Pred. No. 2.6e-276;

XX Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 1 ATGGAAAGCAAGAAAGCATCAACCAAGAAAGAACTTTGAAATGAAGCTTAGAGAGA 60

Db 66 ATGGAAAGCAAGAAAGCATCAACCAAGAAAGAACTTTGAAATGAAGCTTAGAGAGA 125
Qy 61 AATTAGAAAGAAAGATTTATTTGATAGAGACAGGGAGAGACCAGCATGTCTAAAGAA 120
Db 126 AATTAGAAAGAAAGATTTATTTGATAGAGACAGGGAGAGACCAGCATGTCTAAAGAA 185
Qy 121 CCTGTCTTTTGGCATTTTGGACCAACAGCCCATGTGTAAATTTGACTGCCCTTCAGAA 180
Db 186 CCTGTCTTTTGGCATTTTGGACCAACAGCCCATGTGTAAATTTGACTGCCCTTCAGAA 245
Qy 181 CTTCAGACACACAGGAACTCTTTCACAGTGGCATTTGCCAATTTAAATTTAGCTGTATT 240
Db 246 CTTCAGACACACAGGAACTCTTTCACAGTGGCATTTGCCAATTTAAATTTAGCTGTATT 305
Qy 241 ATAGCATCTGTACTTTCTTTTACACTCTTTCAGAGGAAATTAATTCACCTTTAGCACT 300
Db 306 ATAGCATCTGTACTTTCTTTTACACTCTTTCAGAGGAAATTAATTCACCTTTAGCACT 365
Qy 301 TCCCATCAACATATTTTAAATTTCCAAATCTGTATCAACAAAGTCTTGGCAATG 360
Db 366 TCCCATCAACATATTTTAAATTTCCAAATCTGTATCAACAAAGTCTTGGCAATG 425
Qy 361 GTTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGTATGCGCAATTTGCCAA 420
Db 426 GTTTCATCACTCTCTTGGCATTTGTTTACCTGCGAGGTGTATGCGCAATTTGCCAA 485
Qy 421 CTTCATTAAGAAAGCAAGATTAAGAAAGTTTCCAAATGTTGATTAAGGATTTAA 480
Db 486 CTTCATTAAGAAAGCAAGATTAAGAAAGTTTCCAAATGTTGATTAAGGATTTAA 545
Qy 481 AGAAAGCATTTGGGCTTCTCAGTTCTTTTGTGTTTCTGATCTCATGCAATTTATAGTCTG 540
Db 546 AGAAAGCATTTGGGCTTCTCAGTTCTTTTGTGTTTCTGATCTCATGCAATTTATAGTCTG 605
Qy 541 TCTTACCCATAGAGGATCTTCAAGATTAAGAAAGTTTCAAGTGTCTTAACTGGCAATTAACAGGTC 600
Db 606 TCTTACCCATAGAGGATCTTCAAGATTAAGAAAGTTTCAAGTGTCTTAACTGGCAATTAACAGGTC 665
Qy 601 CAACAAATTAAGAAAGATGCTGATTTGAGATTAAGTGTGAGATTAAGTATGTCG 660
Db 666 CAACAAATTAAGAAAGATGCTGATTTGAGATTAAGTGTGAGATTAAGTATGTCG 725
Qy 661 TCTTGGGAATTTGGGATTTGGCAATTAAGTGTGATTTGCTGTGATCTATTTCCATCT 720
Db 726 TCTTGGGAATTTGGGATTTGGCAATTAAGTGTGATTTGCTGTGATCTATTTCCATCT 785
Qy 721 GTGAGTACTCTTTGATCATGAGAGATTTTCACTATTTCAAGCAAGCTTAGAATTTGTT 780
Db 786 GTGAGTACTCTTTGATCATGAGAGATTTTCACTATTTCAAGCAAGCTTAGAATTTGTT 845
Qy 781 TCCCTTCTATGAGGACATTAAGCATTTTGTGCTGGAATTAAGTATGATATTA 840
Db 846 TCCCTTCTATGAGGACATTAAGCATTTTGTGCTGGAATTAAGTATGATATTA 905
Qy 841 AAACATTTGTATGTATACCTCACTCACTTTTATGATGCTGTTTCTTCCAAATTTGTT 900
Db 906 AAACATTTGTATGTATACCTCACTCACTTTTATGATGCTGTTTCTTCCAAATTTGTT 965
Qy 901 GTTCCTGATTTTAAAGCACTATTTCTGCGCATGTTAGAGAAAGTACTGAAGATT 960
Db 966 GTTCCTGATTTTAAAGCACTATTTCTGCGCATGTTAGAGAAAGTACTGAAGATT 1025
Qy 961 AGACATGTTGGGAGAGAGCTCAACCAAAATTAACAAAGTATGTTCCAGTTG 1017
Db 1026 AGACATGTTGGGAGAGAGCTCAACCAAAATTAACAAAGTATGTTCCAGTTG 1082

RESULT 13

ADB14328 standard; cDNA; 1195 BP.

ID ADB14328

AC ADB14328;

XX 18-DEC-2003 (first entry)
DT Human prostate specific full length cDNA P789P.
XX
DE Human prostate specific full length cDNA P789P.
XX
XX Human, ser, prostate specific cDNA; cytosolic; immunostimulant;
KM gene therapy; cell therapy; vaccine; T-cell epitope;
KW class I major histocompatibility complex allele; MHC; prostate cancer;
XX tumour; antigen presenting cell.
OS Homo sapiens.
XX
XX US2003185830-A1.
XX
XX 02-OCT-2003.
XX
XX 12-NOV-2002; 2002US-00294025.
XX
XX 25-FEB-1997; 97US-00806099.
XX 01-AUG-1997; 97US-00904804.
XX 09-FEB-1998; 98US-00020956.
XX 25-FEB-1998; 98US-00030607.
XX 14-JUL-1998; 98US-00115453.
XX 23-SEP-1998; 98US-00159812.
XX 15-JAN-1999; 99US-00232149.
XX 09-APR-1999; 99US-00288946.
XX 13-JUL-1999; 99US-00352616.
XX 12-NOV-1999; 99US-00439313.
XX 18-NOV-1999; 99US-00443686.
XX 14-JAN-2000; 2000US-00483672.
XX 27-MAR-2000; 2000US-00536857.
XX 09-MAY-2000; 2000US-00568100.
XX 12-MAY-2000; 2000US-00570737.
XX 13-JUN-2000; 2000US-00593793.
XX 27-JUN-2000; 2000US-00605783.
XX 09-AUG-2000; 2000US-00636215.
XX 29-AUG-2000; 2000US-00651236.
XX 06-SEP-2000; 2000US-00657279.
XX 02-OCT-2000; 2000US-00679426.
XX 10-OCT-2000; 2000US-00685166.
XX 09-NOV-2000; 2000US-00709729.
XX 12-JAN-2001; 2001US-00759143.
XX 09-FEB-2001; 2001US-00780669.
XX 09-MAY-2001; 2001US-00852911.
XX 29-JUN-2001; 2001US-00895814.
XX 10-DEC-2001; 2001US-00012896.
XX 09-MAY-2002; 2002US-00144678.
XX
XX (CORI-) CORIXA CORP.
XX
XX Xu J, Stolk JA, Kalos MD;
PI WPI, 2003-756193/71.
XX P-PSDB; ADB14329.
XX
XX New isolated polypeptide for use in a vaccine for stimulating an immune
PT response, or for treating or diagnosis cancer, preferably prostate
PT cancer.
XX
XX Example 5; Page; 101pp; English.
XX
XX The invention relates to an isolated polypeptide comprising no more than
CC 11-542 amino acids of ADB13563 comprising a sequence ADB14487. The
CC peptide comprises a fragment ADB13563 of that contain naturally processed
CC T-cell epitopes for 3 class I major histocompatibility complex (MHC)
CC alleles. ADB13563 is a polypeptide encoded by a human prostate specific
CC cDNA, one of 648 disclosed as new. Also included are nucleic acids
CC encoding the proteins and peptides, expression vectors, a host cell
CC transformed with the vector, an isolated antibody (or antigen binding
CC fragment) that specifically binds to the protein or peptide, detecting
CC the presence of a cancer in a patient (comprising contacting a patient
CC sample with a binding agent that binds to the peptides or a polypeptide
CC appearing as ADB13558, detecting the amount of polypeptide that binds to

CC the agent and comparing the amount of polypeptide to a predetermined cut-
CC off value to determine the presence of cancer), a fusion protein
CC comprising the peptides or proteins, stimulating or expanding T cells
CC specific for a tumour protein comprising contacting T cells with the
CC peptides or the isolated T cell population, treating prostate cancer in a
CC patient comprising administering a composition comprising the peptides,
CC nucleic acids, antibodies or compounds, determining the presence of a
CC cancer in a patient and treating prostate cancer in a patient comprising
CC incubating cluster of differentiation (CD4+) and/or CD8+ T cells isolated
CC from a patient with the peptides or antigen presenting cells that express
CC (the peptides so that the T cells proliferate, and administering the
CC proliferated T cells to the patient. The peptides (or an oligonucleotide
CC that hybridises to nucleic acid encoding them), is used to detect the
CC presence of cancer in a patient. The peptides, nucleic acids encoding, or
CC antigen-presenting cells expressing the nucleic acids, are used to
CC stimulate or expand T cells specific for a tumour protein. The peptides,
CC nucleic acids, antibodies, fusion proteins, T cell populations or antigen
CC presenting cells are used to stimulate an immune response or treat
CC prostate cancer in a patient. The present sequence is a known cDNA
CC showing sequence similarity to one of the disclosed human prostate
CC specific cDNAs. Note: Except where otherwise indicated, the sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?DocID=20030185830.
XX
XX SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;
Query Match 100.0%; Score 1017; DB 10; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2,6e-276; Indels 0; Gaps 0;
Matches 1017; Conservative 0; Mismatches 0;
1 ATGGAAGCAGAAAAGACATCAACCAAGAACTTTGGAAATGAAGCTTAGAGAG 60
Db ATGGAAGCAGAAAAGACATCAACCAAGAACTTTGGAAATGAAGCTTAGAGAG 125
61 AATTGGAAGAAAGACATTAATTTGCTAAGACACGCGAGAGACCGATGCTAAAGAA 120
126 AATTGGAAGAAAGACATTAATTTGCTAAGACACGCGAGAGACCGATGCTAAAGAA 185
121 CCTGGCTTTTGCATTTGACCAAAACGCGCATGCTGAATTTGACCTGCTTACGAA 180
Db CCTGGCTTTTGCATTTGACCAAAACGCGCATGCTGAATTTGACCTGCTTACGAA 245
186 CCTGGCTTTTGCATTTGACCAAAACGCGCATGCTGAATTTGACCTGCTTACGAA 245
181 CTTGACGACACACAGGAACCTTTCCACAGTGGACCTTCCAAATTAATAGTGTATT 240
Db CTTGACGACACACAGGAACCTTTCCACAGTGGACCTTCCAAATTAATAGTGTATT 305
246 CTTGACGACACACAGGAACCTTTCCACAGTGGACCTTCCAAATTAATAGTGTATT 305
241 ATGACATCTGTGACTTTTCTTACACTTTCTGAGGAGATTAATCCCTTTAGCACT 300
Db ATGACATCTGTGACTTTTCTTACACTTTCTGAGGAGATTAATCCCTTTAGCACT 365
306 ATGACATCTGTGACTTTTCTTACACTTTCTGAGGAGATTAATCCCTTTAGCACT 365
301 TCCCATCAACATATTTTATTAATAATTCATCTGCTGATCAACAAAGTCTTCCAAAG 360
Db TCCCATCAACATATTTTATTAATAATTCATCTGCTGATCAACAAAGTCTTCCAAAG 425
366 TCCCATCAACATATTTTATTAATAATTCATCTGCTGATCAACAAAGTCTTCCAAAG 425
361 GTTTCATACCTCTGTGGCATTTGTTTACCTGCGAGGATTAATGACCAATTTGCCAA 420
Db GTTTCATACCTCTGTGGCATTTGTTTACCTGCGAGGATTAATGACCAATTTGCCAA 485
421 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTATTAAGTATTAACA 480
Db CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTATTAAGTATTAACA 545
486 CTTCAATATGGAACCAAGTATTAAGAGTTTCCACATTTGGTATTAAGTATTAACA 545
481 AGAAGCACTTTGGCTTCTGATTTTCTTTTCTGTAACGACGCAATTAATAGTGTG 540
Db AGAAGCACTTTGGCTTCTGATTTTCTTTTCTGTAACGACGCAATTAATAGTGTG 605
546 AGAAGCACTTTGGCTTCTGATTTTCTTTTCTGTAACGACGCAATTAATAGTGTG 605
541 TCTTCCCAATGAGGCGATCTCAAGATTAACAAGTGTCTAACTGGGCAATCAACAGGTC 600
Db TCTTCCCAATGAGGCGATCTCAAGATTAACAAGTGTCTAACTGGGCAATCAACAGGTC 665
606 TCTTCCCAATGAGGCGATCTCAAGATTAACAAGTGTCTAACTGGGCAATCAACAGGTC 665
601 CAACAATAAAGAAAGATGCTGATTAAGATGATTTTGGAGATGAGATTTATGTG 660

Db 666 CAACAAATAAAGAGATGCTGATGAGCATGATGTTGGAGATGAGATTATGNG 725
Qy 661 TCTCTGGGAATTTGGGATTTGGCAATCTGCTGCTGGCTGAGACATTCATTCATCT 720
Db 726 TCTCTGGGAATTTGGGATTTGGCAATCTGCTGCTGGCTGAGACATTCATTCATCT 785
Qy 721 GTGAGTGAATCTTTGACATGAGAGATTTTCACTATATTCAGAGCACTAGGAATGTT 780
Db 786 GTGAGTGAATCTTTGACATGAGAGATTTTCACTATATTCAGAGCACTAGGAATGTT 845
Qy 781 TCCCTTCTACTGAGGACAAATACGCAATGATTTTGGCTGGAATTAAGTGAATATA 840
Db 846 TCCCTTCTACTGAGGACAAATACGCAATGATTTTGGCTGGAATTAAGTGAATATA 905
Qy 841 AAACAAATTTGATGATATACCTCCAACTTTATGATAGCTGTTTCCCTTCAATGTT 900
Db 906 AAACAAATTTGATGATATACCTCCAACTTTATGATAGCTGTTTCCCTTCAATGTT 965
Qy 901 GTCCGATATTTTAAAGACATCTATTCCTGCCATGCTTGAGAGAGATCTGAAGATT 960
Db 966 GTCCGATATTTTAAAGACATCTATTCCTGCCATGCTTGAGAGAGATCTGAAGATT 1025
Qy 961 AGACATGTTGGGAGAGAGCTCACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1017
Db 1026 AGACATGTTGGGAGAGAGCTCACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1082

RESULT 14
AAD63162
ID AAD63162 standard; DNA; 1195 BP.

AC AAD63162;
DT 12-FEB-2004 (first entry)

DE Human STEAP (six transmembrane epithelial antigen of the prostate) DNA.

KW Human; breast cancer; metastasis; differential modulation; therapy;
KW STEAP; six transmembrane epithelial antigen of the prostate; ds.

XX Homo sapiens.

XX US2003190656-A1.

XX 09-OCT-2003.

XX 21-MAR-2003; 2003US-00393590.

XX 29-MAR-2002; 2002US-0368789P.

XX (WANG/) WANG Y.

XX Wang Y;

XX WPI; 2003-831621/77.

PT Prognosticating metastasis in a breast cancer patient comprises
PT identifying differential modulation of each gene relative to the
PT expression of the same genes in a normal population in combination of
PT genes.

XX Example 2; Page 54-55; Opp; English.

XX The present invention relates to a method of prognosticating metastasis
XX in a breast cancer patient involves identifying differential modulation
XX of each gene relative to the expression of the same genes in a normal
XX population in combination of genes. The invention is useful for
XX prognosticating breast cancer in a patient. The present sequence is human
XX STEAP (six transmembrane epithelial antigen of the prostate) DNA used to
XX illustrate the method of the invention

XX Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1017; DB 10; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2,6e-276;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGGAAGCAGAAAAGCATGACAAACCAAGAGAACTTTGAAATATGACCTAGAGA 60
Db 66 ATGGAAGCAGAAAAGCATGACAAACCAAGAGAACTTTGAAATATGACCTAGAGA 125
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Db 126 AATTAGAGAGAGAGATTTATTTGCATTAAGGACACGGAGAGACCAAGCATCTAAAAA 185
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Qy 541 TCTTACCAATGAGGCGATCCTACAGATACAAAGTTGCTAACTGGGCATATCAAGG 600
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Db 1026 AGACATGTTGGGAGAGAGCTCACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1082

RESULT 15

AAD62763
ID AAD62763 standard; DNA; 1195 BP.

XX
XX AAD62763;

XX
XX 12-FEB-2004 (first entry)

XX
XX Human STEAP (six transmembrane epithelial antigen of the prostate) DNA.

XX
XX Human; cancer; differential modulation; gene expression profile; STEAP;
XX six transmembrane epithelial antigen of the prostate; ds.

XX
XX Homo sapiens.

XX
XX PN US2003194733-A1.

XX
XX PD 16-OCT-2003.

XX
XX PF 21-MAR-2003; 2003US-00393567.

XX
XX PR 29-MAR-2002; 2002US-0368667P.

XX
XX PA (WANG/) WANG Y.

XX
XX PI Wang Y;

XX
XX DR MPI; 2003-844450/78.

XX
XX PT Diagnosing cancer comprises identifying differential modulation of each
XX PT gene (relative to the expression of the same genes in a normal
XX PT population) in a combination of genes.

XX
XX PS Claim 4; Page 54-55; Opp; English.

XX
XX CC The invention relates to a method for diagnosing cancer. The method
XX CC comprising identifying differential modulation of each gene (relative to
XX CC the expression of the same genes in a normal population) in a combination
XX CC of genes. The method, diagnostic portfolio and the kit are useful in
XX CC diagnosing cancer. The method may also be used for determining gene
XX CC expression profiles. The present sequence is human STEAP (six
XX CC transmembrane epithelial antigen of the prostate) DNA used to illustrate
XX CC the method of the invention

XX
XX SQ Sequence 1195 BP; 382 A; 221 C; 233 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 1017; DB 10; Length 1195;

Best Local Similarity 100.0%; Pred. No. 2,6e-276;

Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 CCTGTCCTTTTGATTTGACCAACAGCCCATGCTGATGAATTTGACTGCCCTTGAGAA 180
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QY 781 TCCCTTCTACTGGGCAACAATPACACGATGATTTTTCCTGGAATAATGAGATATATA 840
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DB 906 AAAACAATTTGATGATGATACCTCCACTTTTATGATAGCTTTTCCCTCCAAATGTT 965
QY 901 GTTCTGATATTTAAAGCATATCTTCTGCAATGCTTGAAGAAAGATGATGAGATT 960
DB 966 GTTCTGATATTTAAAGCATATCTTCTGCAATGCTTGAAGAAAGATGATGAGATT 1025
QY 961 AGACATGTTGGGAGAGCGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGGAGAGCGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG 1082
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Job time : 685.751 secs

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Query Match 100.0%; Score 1017; DB 6; Length 1193;

Best Local Similarity 100.0%; Pred. No. 2.6e-231; Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 964 GTCTGATATTTAAAGCATATCTTCTGCAATGCTTGGAGAAAGATACGAATTT 1023
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Db 1024 AGACATGTTGGAGAGCGTCACCAAAATTAACAAAATGAGATATGTTCCCAAGTTG 1080

RESULT 2
LOCUS AR617054 1193 bp DNA linear PAT 14-FEB-2005
DEFINITION Sequence 1 from patent US 6833438.
ACCESSION AR617054
VERSION AR617054.1 GI:59720558
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1193)
AUTHORS Afar,D.E., Hubert,R.S., Raitano,A.B., Saffran,D.C. and Mitchell,S.C.
TITLE Serpentine transmembrane antigens expressed in human cancers and uses thereof
JOURNAL Patent: US 6833438-A 1 21-DEC-2004;
Ageneys, Inc./ Santa Monica, CA
FEATURES
source 1.1193
Location/Qualifiers
/organism="unknown"
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ORIGIN

Query Match 100.0%; Score 1017; DB 6; Length 1193;

Best Local Similarity 100.0%; Pred. No. 2.6e-231; Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 AATTTGAAGAAGACGATTTATTTGATTAAGACACGGGAGAGACACGATGCTTAAAGA 120
DB 124 AATTTGAAGAAGACGATTTATTTGATTAAGACACGGGAGAGACACGATGCTTAAAGA 183
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Db 964 GTCTGATATTTAAAGCATATATTCCTGCACTGCTTGAAGAAAGATATCTGAAGATT 1023
Qy 961 AGACATGTTGGGAGAGAGCTACCAAAATTTAACTGAGATATGTTCCCAAGTTG 1017
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RESULT 3
AX155243 1193 bp DNA linear PAT 22-JUN-2001

LOCUS AX155243 Sequence 1 from Patent WO0140276.
ACCESSION AX155243
VERSION AX155243.1 GI:14536707

KEYWORDS
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominae; Homo.

REFERENCE 1 Afari, D.E., Hubert, R.S., Raitano, A.B., Saffran, D.C., Mitchell, S.C.,
Fatis, M. and Jakobovits, A.
Serpentine transmembrane antigens expressed in human prostate
cancers and uses thereof
Patent: WO 0140276-A 1 07-JUN-2001;
JOURNAL Urogenesys, Inc. (US)
FEATURES
Location/Qualifiers

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ORIGIN
Query Match 100.0%; Score 1017; DB 6; Length 1193;
Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGGAAGCGAAGAAAGCATACAAACCAAGAAAGCTTTGGAAATGAAGACCTTAGAGA 60
Db 64 ATGGAAGCGAAGAAAGCATACAAACCAAGAAAGCTTTGGAAATGAAGACCTTAGAGA 123

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RESULT 4
CO776742 1195 bp DNA linear PAT 11-MAR-2004

LOCUS CO776742 Sequence 428 from Patent EP1394274.
DEFINITION CO776742
ACCESSION CO776742
VERSION CO776742.1 GI:145380132

KEYWORDS
SOURCE Homo sapiens (human)

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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.

REFERENCE 1
AUTHORS Ohtani, N., Sugita, Y., Yamaya, M., Kubo, H., Nagai, H. and Izuhara, K.
TITLE Methods of testing for bronchial asthma or chronic obstructive
pulmonary disease
JOURNAL Patent: EP 1394274-A 428 03-MAR-2004;
Genex Research, Inc. (JP)

FEATURES
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ORIGIN

Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred.No.2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 126 AATTTAGAGAGACGATTTATTTGATAGAGACAGGAGAGACAGCATGCTAAAAA 185
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DB 786 GTGAGTGAATCTTTGACATGAGAGAAATTCATATATTCAGAGCAAGCTAG 845

QY 781 TCCCTTCTACTGGGCAACATACAGCATTTGTTTCCCTGGAATAGTGATAGAT 840
DB 846 TCCCTTCTACTGGGCAACATACAGCATTTGTTTCCCTGGAATAGTGATAGAT 905
QY 841 AAACAATTTGATAGTATACCTCCACTTTTATATAGCTGTTTCTTCCAAAT 900
DB 906 AAACAATTTGATAGTATACCTCCACTTTTATATAGCTGTTTCTTCCAAAT 965
QY 901 GTCTGATATTTTAAAGCATACTATCTGCTGCTGCTGAGAGAAATGATGAGAT 960
DB 966 GTCTGATATTTTAAAGCATACTATCTGCTGCTGCTGAGAGAAATGATGAGAT 1025
QY 961 AGACATGTTGGGAGACGTCACCAAAATTAACAAACTGAGATATGTTCCAG 1017
DB 1026 AGACATGTTGGGAGACGTCACCAAAATTAACAAACTGAGATATGTTCCAG 1082

RESULT 5
AR366780 1195 bp DNA linear PAT 12-SEP-2003
LOCUS AR366780
DEFINITION Sequence 1 from patent US 6329503.
ACCESSION AR366780
VERSION AR366780.1 GI:34599746
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1195)
AUTHORS Ahar, D.E., Hubert, R.S., Leong, K., Raitano, A.B., Saffran, D.C. and
TITLE Serpentine transmembrane antigens expressed in human cancers and
JOURNAL uses thereof
Patent: US 6329503-A 11-DEC-2001;
Ageneys, Inc.; Santa Monica, CA;
WOL;

FEATURES
source location/Qualifiers
1..1195
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred.No.2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGAGAGAAAGACATCAACCAAGAACTTTGAAATGAGCCTAGAGA 60
DB 66 ATGGAAGAGAGAAAGACATCAACCAAGAACTTTGAAATGAGCCTAGAGA 125
QY 61 AATTTAGAGAGACGATTTATTTGATAGAGACAGGAGAGACAGCATGCTAAAAA 120
DB 126 AATTTAGAGAGACGATTTATTTGATAGAGACAGGAGAGACAGCATGCTAAAAA 185
QY 121 CCGTGTCTTTTGATTTGACCAACAGCCCATGCTGATGATTTGATGCTCCCTG 180
DB 186 CCGTGTCTTTTGATTTGACCAACAGCCCATGCTGATGATTTGATGCTCCCTG 245
QY 181 CTTGAGACACAGAGAACTCTTTCACAGTGGACATGCTCAATTAATAGCTGAT 240
DB 246 CTTGAGACACAGAGAACTCTTTCACAGTGGACATGCTCAATTAATAGCTGAT 305
QY 241 ATAGCATCTCTGACTTTCTTTACACTCTTCTGAGGAAATATTCACCCCTTAGCA 300
DB 306 ATAGCATCTCTGACTTTCTTTACACTCTTCTGAGGAAATATTCACCCCTTAGCA 365
QY 301 TCCCATCAACAATATTTTAAATTCATCTGCTCATCAACAAGTCTTGCCAA 360
DB 366 TCCCATCAACAATATTTTAAATTCATCTGCTCATCAACAAGTCTTGCCAA 425
QY 361 GTTTCATCACTCTCTTGGCAATGGTTTACCTGCGAGGTGATAGCAGCAATG 420
DB 426 GTTTCATCACTCTCTTGGCAATGGTTTACCTGCGAGGTGATAGCAGCAATG 485

QY 421 CTTGATATGAGAACCAAGTATAGAGATTGCCATTTGGTGTGATAGTGTATAC 480
DB 486 CTTGATATGAGAACCAAGTATAGAGATTGCCATTTGGTGTGATAGTGTATAC 545
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DB 546 AGAAGAGATTGGGCTTCAGTTCCTTTTGGTGTGATAGTGTATAGTGT 605
QY 541 TCTTACCAGTGAAGGAGTCTTACAGATAGTGTGATAGTGTATAGTGT 600
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QY 601 CAACAAATTAAGAGAGTCTTACAGATAGTGTGATAGTGTATAGTGT 660
DB 666 CAACAAATTAAGAGAGTCTTACAGATAGTGTGATAGTGTATAGTGT 725
QY 661 TCTTGGGAGTGTGGGATTTGGCAATCTGCTGTGCTGTGATATATTCATCT 720
DB 726 TCTTGGGAGTGTGGGATTTGGCAATCTGCTGTGCTGTGATATATTCATCT 785
QY 721 GTGAGTACTCTTGAATGAGAGATTTCACTATTCAGAGCAAGTATGTT 780
DB 786 GTGAGTACTCTTGAATGAGAGATTTCACTATTCAGAGCAAGTATGTT 845
QY 781 TCCCTTCTACTGGGCAATATACAGCATTTGCTGTGATATAGTATATAT 840
DB 846 TCCCTTCTACTGGGCAATATACAGCATTTGCTGTGATATAGTATATAT 905
QY 841 AAACATTTGTATGTATATACCTCCAACTTTTATGATAGTGTTCCTTCAATGTT 900
DB 906 AAACATTTGTATGTATATACCTCCAACTTTTATGATAGTGTTCCTTCAATGTT 965
QY 901 GTCTGATATTTAAAGCATATCTTCTGCAATGCTTGAAGAAGATGATG 960
DB 966 GTCTGATATTTAAAGCATATCTTCTGCAATGCTTGAAGAAGATGATG 1025
QY 961 AGACATGTTGGAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1082

RESULT 6
LOCUS AR405830 1195 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 878 from patent US 6630305.
ACCESSION AR405830
VERSION AR405830.1 GI:40154667
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 1195)
AUTHORS Xu,D., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Kales,M.D., Fanger,G.R., Reiter,M.W., Stolk,J.A., Day,C.H.,
Vedvick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A.W.,
Hepler,W.T. and Henderson,R.A.
TITLE Compositions and methods for the therapy and diagnosis of prostate
cancer
JOURNAL Patent: US 6630305-A 878 07-OCT-2003;
Cortixa Corporation; Seattle, WA;
MOX;
FEATURES
source location/Qualifiers
1.1195
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN
Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2,6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGAAGCAGAAAGACATCAAAACAGAGAACTTTGGAAAATGAAAGCTTAGAGA 60
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DB 66 ATGGAAGCAGAAAGACATCAAAACAGAGAACTTTGGAAAATGAAAGCTTAGAGA 125
QY 61 AATTGAGAGAGACGATTAATTGATAGAGACAGGAGAGACGACATGCTAAAAAGA 120
DB 126 AATTGAGAGAGACGATTAATTGATAGAGACAGGAGAGACGACATGCTAAAAAGA 185
QY 121 CCTGTCTTTTGGATTTGACCAACAGCCCATGATGATATTTGACTGCCCTTCAAA 180
DB 186 CCTGTCTTTTGGATTTGACCAACAGCCCATGATGATATTTGACTGCCCTTCAAA 245
QY 181 CTTGACACACACAGAGACCTTTTGCAGATGACCTTGCATTTAAATAGCTGATTT 240
DB 246 CTTGACACACACAGAGACCTTTTGCAGATGACCTTGCATTTAAATAGCTGATTT 305
QY 241 ATGACATCTGACCTTTTCACTCTTGTGAGGAGATATTCACCTTTAGCAACT 300
DB 306 ATGACATCTGACCTTTTCACTCTTGTGAGGAGATATTCACCTTTAGCAACT 365
QY 301 TCCCATCAACATATTTTATATAAATTCCATCTGCTCATCAACAAAGCTTTGCCAATG 360
DB 366 TCCCATCAACATATTTTATATAAATTCCATCTGCTCATCAACAAAGCTTTGCCAATG 425
QY 361 GTTTCATCACTCTTGTGACCTTTGCTTACCTGCAAGGATGATATGACAGAAATTTGCCAA 420
DB 426 GTTTCATCACTCTTGTGACCTTTGCTTACCTGCAAGGATGATATGACAGAAATTTGCCAA 485
QY 421 CTTGATATGAGAACCAAGTATAGAGATTTCCATTTGATGATAGTATATAC 480
DB 486 CTTGATATGAGAACCAAGTATAGAGATTTCCATTTGATGATAGTATATAC 545
QY 481 AGAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTGCTGTAATGATGCAATTTATAGTCTG 540
DB 546 AGAAGCAGTTTGGGCTTCTCAGTTTCTTTTGTGCTGTAATGATGCAATTTATAGTCTG 605
QY 541 TCTTACCAGTGAAGGAGTCTTACAGATATCAAGTGTCTTAACTGGGCAATATCAACAGTCT 600
DB 606 TCTTACCAGTGAAGGAGTCTTACAGATATCAAGTGTCTTAACTGGGCAATATCAACAGTCT 665
QY 601 CAACAAATTAAGAGAGATGCTGATGATGAGCATGATTTGGAGATGAGATTTATGTT 660
DB 666 CAACAAATTAAGAGAGATGCTGATGATGAGCATGATTTGGAGATGAGATTTATGTT 725
QY 661 TCTTGGGAGTGTGGGATTTGGCAATCTGCTGTGCTGTGATATTCATCT 720
DB 726 TCTTGGGAGTGTGGGATTTGGCAATCTGCTGTGCTGTGATATTCATCT 785
QY 721 GTGAGTACTCTTGAATGAGAGATTTCACTATATTCAGAGCAAGTATGTT 780
DB 786 GTGAGTACTCTTGAATGAGAGATTTCACTATATTCAGAGCAAGTATGTT 845
QY 781 TCCCTTCTACTGGGCAATATACAGCATTTGCTGTGATATAGTATATAT 840
DB 846 TCCCTTCTACTGGGCAATATACAGCATTTGCTGTGATATAGTATATAT 905
QY 841 AAACATTTGTATGTATATACCTCCAACTTTTATGATAGTGTTCCTTCAATGTT 900
DB 906 AAACATTTGTATGTATATACCTCCAACTTTTATGATAGTGTTCCTTCAATGTT 965
QY 901 GTCTGATATTTAAAGCATATCTTCTGCAATGCTTGAAGAAGATGATG 960
DB 966 GTCTGATATTTAAAGCATATCTTCTGCAATGCTTGAAGAAGATGATG 1025
QY 961 AGACATGTTGGAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1017
DB 1026 AGACATGTTGGAGAGCTGACCAAAATTAACAACTGATATGTTCCAGTTG 1082

RESULT 7
LOCUS AR564210 1195 bp DNA linear PAT 08-OCT-2004
DEFINITION Sequence 878 from patent US 6759515.
ACCESSION AR564210
VERSION AR564210.1 GI:53979261

KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
ORIGIN

Unknown.
Unknown.
Unclassified.
1 (bases 1 to 1195)
Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y.,
Kalos, M.D., Fanger, G.R., Retter, M.W., Stolk, J.A., Day, C.H.,
Vedrick, T.S., Carter, D., Li, S.X., Wang, A., Skelky, Y.A.W.,
Hepler, W.T. and Henderson, R.A.
Compositions and methods for the therapy and diagnosis of prostate
cancer
Patent: US 6759515-A 878 06-JUL-2004;
Corixa Corporation; Seattle, WA
Location/Qualifiers
1..1195
/organism="unknown"
/mol_type="genomic DNA"

Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGGAAGCAGAAAAGCATCAAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAGA 60
66 ATGGAAGCAGAAAAGCATCAAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAGA 125
61 AATTTAGAAGAGAGCATTTATTTGCAATAGAGACAGGGAGAGACCGACATGCTTAAAGAGA 120
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121 CCTGTGCTTTTGCATTTTGACCAAAACAGCCCATGCTGATGAATTTGACTGCCCTTCAGAA 180
186 CCGTGCCTTTTGCATTTTGACCAAAACAGCCCATGCTGATGAATTTGACTGCCCTTCAGAA 245
181 CTTGACGACACACAGGAACCTCTTTCCACAGTGACCTTGCCCAATTTAAATAGTGTATT 240
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241 ATAGCATCTCTGACTTTTCTTTTACACTCTTCTGAGGAGAAATTTACACCTTTAGCAACT 300
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366 TCCCATCAACAATATTTTATAAATTCCAATCTCTGTCATCAACAAGCTTTGCCAATG 425
361 GTTTCATCACTCTCTTGCGCATTTGTTTACCTGCGCAGGTGTGATAGCAGCAATTTGCCAA 420
426 GTTTCATCACTCTCTTGCGCATTTGTTTACCTGCGCAGGTGTGATAGCAGCAATTTGCCAA 485
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481 AGAAGACAGTTGGGCTTCTCACTTTCTTTTGTCTGTACTGCATCAATTTAATAGCTG 540
546 AGAAGACAGTTGGGCTTCTCACTTTCTTTTGTCTGTACTGCATCAATTTAATAGCTG 605
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606 TCTTACCCAAATGAGCGATCTTACAGATACAAAGTTGCTAAACCTGGGCAATTCACAGGTC 665
601 CAACAAAATAAAGAAATGCTGATTTAGCATGATTTGAGAAATGAGATTTATGAG 660
666 CAACAAAATAAAGAAATGCTGATTTAGCATGATTTGAGAAATGAGATTTATGAG 725
661 TCTCTGGGAAATTTGGGATTTGGCAATATCTGCTCTGTGCTGTGACATCTATTTCCACT 720
726 TCTCTGGGAAATTTGGGATTTGGCAATATCTGCTCTGTGCTGTGACATCTATTTCCACT 785
721 GTGAGTGAATCTTTGACATGGAAGAAATTTCACTAATTTCAAGCAAGCTTAGGAATTTGT 780

Db 786 GTGAGTGAATCTTTGACATGGAAGAAATTTCACTAATTTCAAGCAAGCTTAGGAATTTGT 845
Qy 781 TCCCTTTACTGGGACAAATACAGCATTTGTTTTTGGCTTGAATTAAGTGATAGATTA 840
Db 846 TCCCTTTACTGGGACAAATACAGCATTTGTTTTTGGCTTGAATTAAGTGATAGATTA 905
Qy 841 AAAAATTTGATGATTAAGCACTTCCAACTTTTAAAGTGTGTTTCTTCCCAATTTGT 900
Db 906 AAAAATTTGATGATTAAGCACTTCCAACTTTTAAAGTGTGTTTCTTCCCAATTTGT 965
Qy 901 GTCCGATATTTTAAAGCATATCTATTCCTGCGCATGCTTGAAGAAAGATATCTGAAGATT 960
Db 966 GTCCGATATTTTAAAGCATATCTATTCCTGCGCATGCTTGAAGAAAGATATCTGAAGATT 1025
Qy 961 AGACATGTTGGGAAAGACGTCAACCAAAATTAACAAACTGATATGTTCCCAAGTTG 1017
Db 1026 AGACATGTTGGGAAAGACGTCAACCAAAATTAACAAACTGATATGTTCCCAAGTTG 1082

RESULT 8
AR589196 1195 bp DNA linear PAT 15-DEC-2004
LOCUS AR589196
DEFINITION Sequence 878 from patent US 6800746.
ACCESSION AR589196
VERSION AR589196.1 GI:56636093
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
ORIGIN

Unknown.
Unclassified.
1 (bases 1 to 1195)
Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y.,
Kalos, M.D., Fanger, G.R., Retter, M.W., Stolk, J.A., Day, C.H.,
Vedrick, T.S., Carter, D., Li, S.X., Wang, A., Skelky, Y.A.W.,
Hepler, W.T. and Henderson, R.A.
Compositions and methods for the therapy and diagnosis of prostate
cancer
Patent: US 6800746-A 878 05-OCT-2004;
Corixa Corporation; Seattle, WA
Location/Qualifiers
1..1195
/organism="unknown"
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Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGGAAGCAGAAAAGCATCAAAAACCAAGAAAGAACTTTGAAAATGAAGCTTAGAGAGA 60
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181 CTTGACGACACACAGGAACCTCTTTCCACAGTGACCTTGCCCAATTTAAATAGTGTATT 240
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366 TCCCATCAACAATATTTTATAAATTCCAATCTCTGTCATCAACAAGCTTTGCCAATG 425
361 GTTTCATCACTCTCTTGCGCATTTGTTTACCTGCGCAGGTGTGATAGCAGCAATTTGCCAA 420

Db	426	GTTCATCACTCTCTGGCATGGTTTACCTGCGCAGGTGTGATACACCAATTGTC	485		
Qy	421	CTTCATATAGGAACCAAGTATAGAAGTTTCCACATTGGTGGATAGTGGATGTTAA	480		
Db	486	CTTCATATAGGAACCAAGTATAGAAGTTTCCACATTGGTGGATAGTGGATGTTAA	545		
Qy	481	AGAAAGCACTTTGGGCTTCAGTTCTTTTTCGTGTCTGTGATGCAATTTATAGTCTG	540		
Db	546	AGAAAGCACTTTGGGCTTCAGTTCTTTTTCGTGTCTGTGATGCAATTTATAGTCTG	605		
Qy	541	TCTTACCCAATGAGGCGATCTCTACAGATACAAGTTGCTTAACTGGCATATCAAGCTC	600		
Db	606	TCTTACCCAATGAGGCGATCTCTACAGATACAAGTTGCTTAACTGGCATATCAAGCTC	665		
Qy	601	CAACAAATTAAGAAGATGCTCTGATTGAGCATGATGTTTGAGATGAGATTTTATGTG	660		
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Qy	661	TCTTGGGAATTTGGGGATTGGCATATCGGCTCTGTGGCTGTGATCTATTCACAT	720		
Db	726	TCTTGGGAATTTGGGGATTGGCAATACCTGGCTGTGGCTGTGATCTATTCACAT	785		
Qy	721	GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATCAAGCAAGCTAGAAATGTT	780		
Db	786	GTGAGTACTCTTTGACATGAGAGAAATTTCACTATATCAAGCAAGCTAGAAATGTT	845		
Qy	781	TCCCTTCTACTGCGGCAATACACGATGATTTTTGCTGGATTAAGTGAATAGATATA	840		
Db	846	TCCCTTCTACTGCGGCAATACACGATGATTTTTGCTGGATTAAGTGAATAGATATA	905		
Qy	841	AAACAATTTGATGATACCTCCCACTTTTATGATAGCTGTTTCTTCCAAATGTT	900		
Db	906	AAACAATTTGATGATACCTCCCACTTTTATGATAGCTGTTTCTTCCAAATGTT	965		
Qy	901	GTCCGATATTTTAAAGCATACTATTTCCGCGATGCTTGAGAGAAAGATACTGAAGTT	960		
Db	966	GTCCGATATTTTAAAGCATACTATTTCCGCGATGCTTGAGAGAAAGATACTGAAGTT	1025		
Qy	961	AGACATGTTGGGAGAGCGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG	1017		
Db	1026	AGACATGTTGGGAGAGCGTCAACCAAAATTAACAAACTGAGATATGTTCCAGTTG	1082		
RESULT 9	AR654075	1195 bp	DNA	linear	PAT 13-JUN-2005
LOCUS	AR654075				
DEFINITION	Sequence 1 from patent US 6887975.				
ACCESSION	AR654075				
VERSION	AR654075.1	GI:67584962			
KEYWORDS					
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	1 (bases 1 to 1195)				
AUTHORS	Afar,D.E., Hubert,R.S., Leong,K., Raitano,A.B., Saffran,D.C. and Mitchell,S.C.				
TITLE	Peptides derived from STEAP1				
JOURNAL	Patent: US 6887975-A 1 03-MAY-2005;				
FEATURES	AgencyB, Inc.; Santa Monica, CA				
source	Location/Qualifiers				
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Query Match	100.0%	Score 1017	DB 6	Length 1195
Best Local Similarity	100.0%	Pred. No. 2.6e-231		
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QY	61	AATTAGAAAGAGATTTATTTGCATATAGACACGGGAGAGAACGACGATGCTAAATAA	120
Db	126	AATTTAGAAGAGAGATTTATTTGCATATAGACACGGGAGAGAACGACGATGCTAAATAA	185
QY	121	CCGTGCTTTTGGCATTTTGACCAACCAACAGCCCAATGCTGATGAATTTGACTGCCCTTCAGAA	180
Db	186	CCGTGCTTTTGGCATTTTGACCAACCAACAGCCCAATGCTGATGAATTTGACTGCCCTTCAGAA	245
QY	181	CTTCAGCACACAGAACTCTTTCCACAGTGGCACTTGCCAAATTAATAGCTGCTATT	240
Db	246	CTTCAGCACACAGAACTCTTTCCACAGTGGCACTTGCCAAATTAATAGCTGCTATT	305
QY	241	ATAGATCTGACCTTTCTTTTACACTCTTCGAGGGAAGTAAATTCAACCTTAGCACT	300
Db	306	ATAGATCTGACCTTTCTTTTACACTCTTCGAGGGAAGTAAATTCAACCTTAGCACT	365
QY	301	TCCCATCAACATATTTTATTAATAATTCCAAATCCTGTCATCAACAAAGCTTGCCATG	360
Db	366	TCCCATCAACATATTTTATTAATAATTCCAAATCCTGTCATCAACAAAGCTTGCCATG	425
QY	361	GTTTCATATCACTCTTTGGCATTGGTTAACTGCCAGGTGATATGACGAATGTCCAA	420
Db	426	GTTTCATATCACTCTCTTGGCATTGGTTAACTGCCAGGTGATATGACGAATGTCCAA	485
QY	421	CTTCATATAGAACCAAGTATTAAGAGTTTCCAACTGGTTGGATTAAGTGAATGTAA	480
Db	486	CTTCATATAGAACCAAGTATTAAGAGTTTCCAACTGGTTGGATTAAGTGAATGTAA	545
QY	481	AGAAAGCAGTTTGGGCTTCTGAGTTCTTTTGTCTGTATCTGCATGCAATTAATAGTCG	540
Db	546	AGAAAGCAGTTTGGGCTTCTGAGTTCTTTTGTCTGTATCTGCATGCAATTAATAGTCG	605
QY	541	TCTTATCCCAATGAGGCGATCTCTACAGATACAAAGTTGCTAAACTGGGCAATCAACAGT	600
Db	606	TCTTATCCCAATGAGGCGATCTCTACAGATACAAAGTTGCTAAACTGGGCAATCAACAGT	665
QY	601	CAACAAATTAAGAAGATGCGCTGATGAGCATGATGTTGGAGAAATGGAAATTTATGTG	660
Db	666	CAACAAATTAAGAAGATGCGCTGATGAGCATGATGTTGGAGAAATGGAAATTTATGTG	725
QY	661	TCTCTGGAAATTTGGAGTATGGCAATACTGGCTCTGTTTGGCTGTACACTTAATTCATCT	720
Db	726	TCTCTGGAAATTTGGAGTATGGCAATACTGGCTCTGTTTGGCTGTACACTTAATTCATCT	785
QY	721	GTGAGTGACTCTTTGACATGGAGAAATTTCACTATATTCAGACCAAGCTAGGAATGT	780
Db	786	GTGAGTGACTCTTTGACATGGAGAAATTTCACTATATTCAGACCAAGCTAGGAATGT	845
QY	781	TCCCTTCACTGGGCACAATACAGGCAATGATTTTTCCTGGGAATTAAGTGAATGATATA	840
Db	846	TCCCTTCACTGGGCACAATACAGGCAATGATTTTTCCTGGGAATTAAGTGAATGATATA	905
QY	841	AAACAATTTGATGATATACACTCCCAACTTTTATGATAGCTGTTTCTTCCAAATGTT	900
Db	906	AAACAATTTGATGATATACACTCCCAACTTTTATGATAGCTGTTTCTTCCAAATGTT	965
QY	901	GTCCTGATTTAAAGCATATATTCCTGCGCATGCTTGGAGAAAGATATCTGAAGATT	960
Db	966	GTCCTGATTTAAAGCATATATTCCTGCGCATGCTTGGAGAAAGATATCTGAAGATT	1025
QY	961	AGAAATGTTGGAGAAAGCTCAACCAAAATTAACAAACTGAGATATGTTCCTCAATG	1017
Db	1026	AGAAATGTTGGAGAAAGCTCAACCAAAATTAACAAACTGAGATATGTTCCTCAATG	1082

RESULT 10			
AX201105			
LOCUS	AX201105	1195 bp	DNA
DEFINITION	Sequence 735 from Patent WO0151633.	1linear	PAT 29-AUG-2001
ACCESSION	AX201105		
VERSION	AX201105.1	GI:15390890	
KEYWORDS	.		

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Reed,S.G., Kelos,M.D., Fanger,G.R., Day,C.H., Rether,M.W.,
Stolk,J.A., Skeiky,Y.A., Wang,A. and Mesgher,M.J.
TITLE Compositions and methods for the therapy and diagnosis of prostate
cancer
JOURNAL Patent: WO 0151633-A 735 19-JUL-2001;
CORIXA CORPORATION (US)
FEATURES
source 1..1195
/organism="Homo sapiens"
/mol_type="unassigned DNA"
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ORIGIN
Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 ATGGAAGCAGAAAAGACATCAAAACCAAGAACTTTGGAAAATGAAGCTTAGAGA 60
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RESULT 11
AX267904 1195 bp DNA linear PAT 26-OCT-2001
LOCUS AX267904
DEFINITION Sequence 878 from Patent WO0173032.
ACCESSION AX267904
VERSION AX267904.1 GI:16516522
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE 1
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Kelos,M.D., Fanger,G.R., Rether,M.W., Stolk,J.A., Day,C.H.,
Vedick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A., Hepner,W.T.
and Henderson,R.A.
TITLE Compositions and methods for the therapy and diagnosis of prostate
cancer
JOURNAL Patent: WO 0173032-A 878 04-OCT-2001;
CORIXA CORPORATION (US)
FEATURES
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/organism="Homo sapiens"
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Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 12
AX926483 1195 bp DNA linear PAT 19-DEC-2003
LOCUS AX926483
DEFINITION Sequence 35 from Patent EP1355150.
ACCESSION AX926483
VERSION AX926483.1 GI:40246089
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
REFERENCE
AUTHORS Wang, Y.
TITLE Panel of nucleic acid sequences for cancer diagnosis
JOURNAL Patent: EP 1355150-A 35 22-OCT-2003;
Ortho-Clinical Diagnostics, Inc. (US)
FEATURES
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ORIGIN
Query Match 100.0%; Score 1017; DB 6; Length 1195;

Best Local Similarity 100.0%; Pred. No. 2,6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 13

AX951736
LOCUS AX951736 1195 bp DNA linear PAT 08-JAN-2004
DEFINITION Sequence 35 from Patent EP1367138.
ACCESSION AX951736
VERSION AX951736.1 GI:40782084
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
1
AUTHORS Wang, Y.
TITLES Markers for breast cancer prognosis
JOURNAL Patent: EP 1367138-A 35 03-DEC-2003;
Orcho Clinical Diagnostics Inc. (US)
FEATURES
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ORIGIN
Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 186 CCGTGTCTTTTGCAATTTGACCAAAACAGCCCATGCTGATGAATTTGACCTCCCTTCAGAA 245
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RESULT 14
AX960014 1195 bp DNA linear PAT 14-JAN-2004
LOCUS AX960014
DEFINITION Sequence 35 from Patent EP1349104.
ACCESSION AX960014
VERSION AX960014.1 GI:40880240
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
1
AUTHORS Jackoe, T.
TITLES Method of selecting a portfolio of markers for use in a diagnostic
JOURNAL application
Patent: EP 1349104-A 35 01-OCT-2003;
Orcho-Clinical Diagnostics, Inc. (US)
FEATURES
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Query Match 100.0%; Score 1017; DB 6; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2.6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      961  |||AGACATGTTGGAGACGTCACCAAAATTAACAAAATGAGATGTTTCCAGTTG 1017
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RESULT 15
AF186249 1195 bp mRNA linear PRI 14-DEC-1999
LOCUS AF186249
DEFINITION Homo sapiens six transmembrane epithelial antigen of prostate (STEAP1) mRNA, complete cds.
ACCESSION AF186249
VERSION AF186249.1 GI:6572947
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1195)
Hubert, R.S., Vivanco, I., Chen, E., Rastegar, S., Leong, K., Jakobovits, A., Saffran, D.C. and Afar, D.E.
STEAP: a prostate-specific cell-surface antigen highly expressed in human prostate tumors
Proc. Natl. Acad. Sci. U.S.A. 96 (25), 14523-14528 (1999)
JOURNAL 10588738
PUBMED 2 (bases 1 to 1195)
Hubert, R.S., Vivanco, I., Chen, E., Rastegar, S., Leong, K., Mitchell, S.C., Madraswala, R., Zhou, Y., Kuo, J., Raitano, A.B., Jakobovits, A., Saffran, D.C. and Afar, D.E.H.

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TITLE Direct Submission
JOURNAL Submitted (14-SEP-1999) UroGenesys Inc., 1701 Colorado Ave., Santa Monica, CA 90404, USA
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ICSQL"
ORIGIN
Query Match 100.0%; Score 1017; DB 8; Length 1195;
Best Local Similarity 100.0%; Pred. No. 2,6e-231;
Matches 1017; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 126 AATTTGAAGAGACGATATTTGATTAAGACACGGGAGAGACAGATGCTTAAAGA 185
Qy 121 CCTGTCCTTTTGATTTGACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCA 180
Db 186 CCGTCTCTTTGATTTGACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCA 245
Qy 181 CTTGACGACACAGAAATCTTTTCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
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Qy 241 ATGACATCTCTGATCTTTTACATCTCTTGAAGGAGATATACCTTTAGCACT 300
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Qy 301 TCCATCAACAATATTTTAAATTCCAATCTCTGTCATCAACAAGTCTTGCAATG 360
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Qy 361 GTTTCATCACTCTCTGGCATTTGTTTACTCTGACAGTGTGATAGCAGCAATTTGCCAA 420
Db 426 GTTTCATCACTCTCTGGCATTTGTTTACTCTGACAGTGTGATAGCAGCAATTTGCCAA 485
Qy 421 CTTCATATGGAACCAAGTATTAAGAGTTTCAACATTTGTTGATAGTGAATGTATACA 480
Db 486 CTTCATATGGAACCAAGTATTAAGAGTTTCAACATTTGTTGATAGTGAATGTATACA 545
Qy 481 AGAAAGAGTTGGGCTCTCTCAAGTTCTTTTGTGCTGCTGATGCAATTTATAGTCTG 540
Db 546 AGAAAGAGTTGGGCTCTCTCAAGTTCTTTTGTGCTGCTGATGCAATTTATAGTCTG 605
Qy 541 TCTTACCCATGAGGCAATCTCTACAGATACAGTTGCTAACTGGGCAATCAACAGTCT 600
Db 606 TCTTACCCATGAGGCAATCTCTACAGATACAGTTGCTAACTGGGCAATCAACAGTCT 665

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QY	601	CAACAAAATAAAGAGATGCTGGATTGAGCATATGTTTGGAGATGAGAGATTATGTC	660
Db	666	CAACAAAATAAAGAGATGCTGGATTGAGCATATGTTTGGAGATGAGAGATTATGTC	725
QY	661	TCTCTGGGAATTGGGATTTGGCAATCTGGCTCTGTTTGGCTGGACATCTATTCACAT	720
Db	726	TCTCTGGGAATTGGGATTTGGCAATCTGGCTCTGTTTGGCTGGACATCTATTCACAT	785
QY	721	GTGAGTGCCTCTTTGACATGAGAGAAATTTCAATAATTCAGACCAAGCTAGAAATGTT	780
Db	786	GTGAGTGCCTCTTTGACATGAGAGAAATTTCAATAATTCAGACCAAGCTAGAAATGTT	845
QY	781	TCCCTTCTACTCGGCGACAATAACAGCATTTGATTTTTGCTCGGAATTAAGTGAATGATATA	840
Db	846	TCCCTTCTACTCGGCGACAATAACAGCATTTGATTTTTGCTCGGAATTAAGTGAATGATATA	905
QY	841	AAACATTTGATGGTATACACCTCCCACTTTATGATAGCTGATTTTCTCCCAATGTT	900
Db	906	AAACATTTGATGGTATACACCTCCCACTTTATGATAGCTGATTTTCTCCCAATGTT	965
QY	901	GTCTGATATTTTAAAAGCATACTATTCCTGCGCATGCTTGAAGAAAGATATCTGAAGATT	960
Db	966	GTCTGATATTTTAAAAGCATACTATTCCTGCGCATGCTTGAAGAAAGATATCTGAAGATT	1025
QY	961	AGACATGGTTGGGAAGAGCTACCAAAAATTAAACAAAATGAGATATGTTTCCCAAGTGG	1017
Db	1026	AGACATGGTTGGGAAGAGCTACCAAAAATTAAACAAAATGAGATATGTTTCCCAAGTGG	1082

Search completed: December 5, 2005, 00:23:45
Job time : 5380.03 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 4, 2005, 20:37:26 ; Search time 4645.46 Seconds
(without alignments)
10242.778 Million cell updates/sec

Title: US-10-750-262-1_COPY_66_1082

Perfect score: 1017
Sequence: 1 atggaagcgcagaaagacat.....ctgagatattctccagctg 1017

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:
1: gb_est1:
2: gb_est2:
3: gb_est3:
4: gb_hlc:
5: gb_est4:
6: gb_est5:
7: gb_est6:
8: gb_est7:
9: gb_gsa1:
10: gb_gsa2:
11: gb_gsa3:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	904.6	88.9	1045	AY403219	AY403219 Pan trogl
3	776	76.3	884	CA488012	CA488012 AGENCCOURT
4	738.6	72.6	1050	AY403220	AY403220 Mus muscu
5	737	72.5	1211	AK010437	AK010437 Mus muscu
6	692.8	68.1	881	BG565247	BG565247 602582917
7	651	64.0	710	BE875216	BE875216 601488516
8	639.2	62.9	827	CV983083	CV983083 UMC-dm1x
9	623	60.1	961	BG762026	BG762026 602718984
10	611.4	60.1	796	BG182296	BG182296 RST1161 A
11	605.4	59.5	720	CA446381	CA446381 UI-H-ED1-
12	598	58.8	609	CD677954	CD677954 h024h02.Y
13	598	58.8	697	DN997716	DN997716 TC115356
14	597.8	58.8	920	BE881257	BE881257 601492338
15	596	58.6	742	CK757709	CK757709 AGENCCOURT
16	592.6	58.3	773	B0602279	B0602279 AGENCCOURT
17	590	58.0	825	B1552907	B1552907 603197827
18	589.6	58.0	825	CK753134	CK753134 AGENCCOURT
19	586.2	57.6	609	BX103101	BX103101 BX103101
20	584.4	57.5	788	CNI53902	CNI53902 941063 MA
21	569.2	56.0	799	B0930271	B0930271 AGENCCOURT
22	557	54.8	1071	BM920324	BM920324 AGENCCOURT

C	23	538	52.9	661	3	BM995067	BM995067 UI-H-ED0-
	24	536.6	52.8	1003	2	B1551229	B1551229 603194629
	25	522	51.3	684	3	BE439545	BE439545 HTML-183F
	26	521.6	51.3	600	3	B1360480	B1360480 387409 MA
C	27	520	51.1	705	6	CB424830	CB424830 599432 MA
	28	511.2	50.3	636	6	CD690450	CD690450 EST6973 h
	29	502	49.4	600	1	AI686139	AI686139 t192e11.x
C	30	501.4	49.3	581	2	BG577403	BG577403 N112 SSH-
	31	494.8	48.6	891	2	BF965211	BF965211 602268114
	32	488.8	48.1	723	3	BG104394	BG104394 602311010
	33	485.2	47.7	779	5	B0929991	B0929991 AGENCCOURT
	34	474.4	46.6	661	5	BX506262	BX506262 DKFZP686E
C	35	472.6	46.5	1020	3	BM811413	BM811413 AGENCCOURT
	36	464.8	45.7	584	3	BM675259	BM675259 UI-E-BJ0-
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C	43	438.8	43.1	729	3	BQ211210	BQ211210 UI-R-DY1-
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ALIGNMENTS

RESULT 1
AY403218
LOCUS
DEFINITION
Homo sapiens STEAP gene, VIRUAL TRANSCRIPT, partial sequence,
AY403218
ACCESSION
AY403218.1 GI:39759201
VERSION
KEYWORDS
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE
1. (bases 1 to 1050)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
Inferring nonneutral evolution from human-chimp-mouse orthologous
gene trios
JOURNAL
Science 302 (5652), 1960-1963 (2003)
PUBMED
14671302
REFERENCES
2 (bases 1 to 1050)
Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarival,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,J.J.,
Adams,M.D. and Cargill,M.
Direct Submission
JOURNAL
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT
This sequence was made by sequencing genomic exons and ordering
them based on alignment.
FEATURES
Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/gene="STEAP"
/locus_tag="HCM1484"
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Best Local Similarity 99.9%; Pred. No. 1.3e-259;
Matches 1016; Conservative 0; Mismatches 1; Indels 0; Gaps 0;


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Db      446 CTTCAATATGAGAACCAAGTATAGAGATTTCCACATTTGGTTGATGAAGTGATGTTAACA 505
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Db      506 AGAAGACAGTTTGGGCTTCTCAGTTCTTTTCTGCTACTGATGCAATTTATAGTCG 565
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DEFINITION   mRNA sequence.
ACCESSION    CA488012
VERSION      CA488012.1 GI:24948800
KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
              Homiidae; Homo.
REFERENCE    1 (bases 1 to 884)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT      Contact: Robert Strausberg, Ph.D.
              Email: cgapds-remail.nih.gov
              Tissue Procurement: Kristi A. Eglund, Ira Pastan
              cDNA Library Preparation: Invitrogen Corp
              DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
              DNA Sequencing by: Agencourt Bioscience Corporation
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LNLN at:
              http://image.llnl.gov
              Plate: LLM414278 row: C column: 10
              High quality sequence stop: 758.
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/notes="Vector: pCMV-SPORT6; Site 1: EcoRV; Site 2: Not I;
Subcloned with brain, liver, lung, kidney and muscle.
directionally cloned. Priming method: oligo-dT. Average
insert size: 1800 bp. Library amplification: 26,000 fold.
Kristi A. Eglund, James J. Vincent, Robert Strausberg,
Bungkok Lee & Ira Pastan. Discovery of new breast
cancer genes encoding membrane and secreted proteins.
Manuscript submitted."

ORIGIN
Query Match      76.3%; Score 776; DB 6; Length 884;
Best Local Similarity 99.4%; Pred. No. 9,9e-196;
Matches 779; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db      322 ATGCACTCTGACTTTTCTTACACTCTTCTGAGGAGATATACCCCTTAGCACT 381
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Db      442 GTTTCATCACTCTCTTGGCATTTGTTTACCTGCAAGTGTATGACAGCAATTTGCCA 501
Qy      421 CTTCAATATGGAACCAAGTATGAAGATTCCACTTGTGATATAGTGAATGTTAACA 480
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Db      862 TTCC 865

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[illegible]

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158	AACCTGAAAGATGACGTTACTGACTAAGGACTCGGAGAGAGAGACATGCTGAAAAA	217		
121	CGTGTCTTTTGTGATTTGACACCAACAGCCCATGCTGATGAAATTTGACTGCGCTTCAGAA	180		
218	CCGGGCTCTCGCATTTGACAGACCGGCTCAACGTCATGCTTGTGATGCTCCCTCCGAG	277		
181	CTTCAGACACACAGGAACTCTTTTCACAGTGGCACTTGGCCAAATTTAAATAGCTGTAAT	240		
278	CTTCAGACACACGAGGAATTTCTTCAAACTGGGCTTGGCCAGTAAAGTCGCGCATC	337		
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398	TCCCGTGAACATATTTTATTAATTTCAATCTCGTATTAACAAGTCTTGCCAAATG	457		
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421	CTTCATATATGAAACCAAGTATTAAGAGTTTCACTTGTGATTAAGTGAAGTTTAA	488		
518	CTTCGGAATGAAACCAAGTATTAAGAGTTTCCACCTGCTGATTAAGTGAAGTGTGCC	577		
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578	AAGAGCAGTTTGGTCTCTCAAGCTTCTTTTGTCTGCTGCAAGCTGTTACAGTCTC	637		
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QY	786	TCCTACTGGGACAAATACACCCATTTGATTTTTGGCTGGATATAGTGG- ATATGATATATAAA	843
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QY	904	CTGATATTT- AAAAGCATACATTT- CCTGCGATGCTTGAGAGAAAGATAC- GAAGATT	960
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DEFINITION			mRNA sequence.
ACCESSION	BE875216		
VERSION	BE875216.1	GI:10323992	
KEYWORDS	EST.		
SOURCE	Homo sapiens		
ORGANISM	Homo sapiens (human)		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;		
	Hominidae; Homo.		
REFERENCE	1 (bases 1 to 710)		
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: Robert Strauberg, Ph.D.		
	Email: cga@ds-remail.nih.gov		
	Tissue Procurement: DCTD/DRP/Gasdar		
	cDNA Library Preparation: Life Technologies, Inc.		
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIML)		
	DNA Sequencing by: Incyte Genomics, Inc.		
	Additional information: MGC clones distribution information can be		

the oligonucleotide used to prime first-strand synthesis. Second strand synthesis was performed with T4 DNA polymerase in the presence of DNA ligase and Kase H. After second strand synthesis, the double-stranded cDNAs were ligated to Sali adapters (Invitrogen-Life Technologies) and digested with NotI. The cDNAs were size selected by passage through cDNA size fractionation columns (Invitrogen-Life Technologies). The cDNAs derived from each developmental stage of a particular tissue were mixed on an equimolar basis and ligated directionally into the NotI and Sali sites of the pCMV-SPORT6 vector (Invitrogen). After ligation of the inserts, the plasmids were electroporated into DH10B bacteria. Preliminary library characterization: Randomly chosen clones from each library were analyzed by restriction digestion to determine average insert size (96 clones) and by sequencing (-4.96-well plates) to confirm library quality (e.g. the presence of short polyA tails, genomic DNA contamination (must be <1%), ribosomal RNA clones (must be <1%), etc.) and to provide a sequence database representing the predominant clones in each library. The clones were sequenced at the University of Missouri-Columbia DNA Core Facility. After production of the libraries, equal numbers of recombinants from each library were pooled to produce a single mixed library (mega-library) for more extensive sequencing. Bioinformatics work was performed by GK Springer's bioinformatics group in Computer Science at the University of Missouri-Columbia. Clone Requests: Requests for clones should be made to the director of the University of Missouri DNA Core facility at: bovine@net.missouri.edu. Citations: Bonaldo MF, Lennon G, Soares MB. Normalization and Subtraction: Two approaches to facilitate gene discovery. *Genome Res*. 1996; 6:791-806. Jiang H, Bivens NJ, Ries JE, Whitworth KW, Green JA, Forrester LJ, Springer GK, Didion BA, Mathialagan N, Prather RS, Lucy MC (2001) Constructing cDNA libraries with fewer clones that contain long poly(A) tails. *Biotechniques* 31:38-42. Soares MB, MF Bonaldo, P Jelen, L Su, L Lawton, A Efstratiadis. 1994. Construction and characterization of a normalized cDNA library. *Proc Natl Acad Sci*, 91:9228-9232. TAG_TISSUE=Conceptus-Corpus Luteum (mixed) TAG_SEQ=Not found"

ORIGIN

Query Match 62.9%; Score 639.2; DB 8; Length 827;
Best Local Similarity 90.2%; Pred. No. 3.2e-159;
Matches 683; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

1 ATGGAAGCAGAAAGACATCAACCAAGAACTTTGAAATGAAGCTTAGAGA 60
|||
71 ATGGAAGCAGCAGAAACATCAACCAAGAACTTTGAAATGAAGCTTAGAGA 130
|||
61 AATTGAGAGAGACATTTATTTGCTAAGAGACGGAGACCGACATGCTTAAAGA 120
|||
131 AATCTGAGAGAGATATTATTGAATTAAGACTCAAGAGATGCGCATGCGAAGAA 190
|||
121 CCGTGGCTTTGATTTGACCAACAGCCCATGATGAAATTTGATGCGCTTACAGA 180
|||
191 CATTGCTTTTGGACCTTGACCAACCAACCATTTGATGAAATTTGATGCGCTTACAGA 250
|||
181 CTTGACAGCAGCAGAGAACTTTTCCACAGTGGCACTTGGCAATTAATAGTCTATT 240
|||
251 CTTGACAGCAAAAACAGAACTTTTCCAAAGTGGCGCTTGGCAATTAATAGCGCTATT 310
|||
241 ATAGCATCTCTGACTTTCTTTACACTCTTTGAGGAGATATTGACCTTTAGCAACT 300
|||
311 GATATCTCTCTGACTTTCTTTACACTCTTTGAGGAGATATTGACCTTTTGGACT 370
|||
301 TCCGACCAACAATTTTAAATTCGAATCCTGGTATCAACAAGCTTTGCCAATG 360
|||
371 TCCGACCAACAATTTTAAATTCGAATCCTGGTATCAACAAGCTTTGCCAATG 430
|||

QY 361 GTTCCATCACTCTCTGGATGTTTACCTGCGAGGTGATAGCAGCAATTTGCCAA 420
|||
DB 431 GTTCCATCACTCTCTGGATGTTTACCTGCGAGGTGATAGCAGCAATTTGCCAA 490
|||
QY 421 CTTGATTAATGAGAACCAAGTATTAAGAGTTTCCACATTTGTTGATTAAGTGAATTAA 480
|||
DB 491 CTTGATTAATGAGAACCAAGTATTAAGAGTTTCCACATTTGTTGATTAAGTGAATTAA 550
|||
QY 481 AGAAGAGATTTGGGCTTCTCAGTTCTTTTGGCTGTACATGCAATTAATAGCTG 540
|||
DB 551 AGAAGAGATTTGGGCTTCTCAGTTCTTTTGGCTGTACATGCAATTAATAGCTG 610
|||
QY 541 TCTTACCAATGAGAGCGATCTTACAGATACAGATTTGCTTAACTGGCATATCAAGGTC 600
|||
DB 611 TCTTATCGATGAGCGATCTTACAGATATAGTTGCTGAACCTGGCATATCAAGGTC 670
|||
QY 601 CAACAAATTAAGAAAGATGCTGATTTGAGCATGATGTTGGAGATGAGATTTAATGTC 660
|||
DB 671 CAACAAATTAAGAAAGATGCTGATTTGAGCATGATGTTGGAGATGAGATTTAATGTC 730
|||
QY 661 TCTCTGGAATTTGGGATTTGGGATTTGGCAATTAAGTCTGCTGCTGCTGATTCATCT 720
|||
DB 731 TCACTGGGAATGCTGGGCACTTGGCAATTAAGTCTGCTGCTGCTGATTCATCT 790
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QY 721 GTGAGTGAATCTTTGATGATGAGAGAAATTTCACTATA 757
|||
DB 791 GTGAGTGAATCTTTGATGATGAGAGAAATTTCACTATA 827
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RESULT 9
BG762026
LOCUS
DEFINITION
60271898491 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4858820 5',
mRNA sequence.
ACCESSION
BG762026
VERSION
BG762026.1 GI:14072679
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE
1 (bases 1 to 961)
NIH-MGC <http://mgi.nci.nih.gov/>.
NATIONAL INSTITUTE OF HEALTH, MAMMALIAN GENE COLLECTION (MGC)
JOURNAL
Unpublished (1999)
CONTACT: Robert Strausberg, Ph.D.
Email: cgapbs-rc@mail.nih.gov
Tissue Procurement: ATCC/DCPD/DRP
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: LNCM1713 row: h column: 21
High quality sequence stop: 750.
Location/Qualifiers
1..961
organism="Homo sapiens"
mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4858820"
/tissue="melanotic melanoma, high MDR (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH MGC 49"
/note="Organ: skin; Vector: pOTB7; Site:1: XhoI; Site:2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)

FEATURES

source

ORIGIN

using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
Library. | "

Query Match 61.3%; Score 623; DB 2; Length 961;
Best Local Similarity 93.1%; Pred. No. 7e-155;
Matches 710; Conservative 0; Mismatches 40; Indels 13; Gaps 5;

QY 1 ATGGAAGCAGAAAGACATCAACCAAGAAAGATTGGAAATGAAAGCTTAGAGA 60
DB 122 ATGGAAGCAGAAAGACATCAACCAAGAAAGATTGGAAATGAAAGCTTAGAGA 181
QY 61 AATTAGAAAGACAGATTATTTGATAGAGACAGGAGAGACACAGATGCTAAAAA 120
DB 182 AATTAGAAAGACAGATTATTTGATAGAGACAGGAGAGACACAGATGCTAAAAA 241
QY 121 CTTGTGCTTTTGGATTGACCAAAACGCCATGCTGATGAATTTGACTGCTTCA 180
DB 242 CTTGTGCTTTTGGATTGACCAAAACGCCATGCTGATGAATTTGACTGCTTCA 301
QY 181 CTTGAGACACAGAGAACTCTTCCACAGTGGACATTCCTCAATTAATAGCTGAT 240
DB 302 CTTGAGACACAGAGAACTCTTCCACAGTGGACATTCCTCAATTAATAGCTGAT 361
QY 241 ATAGCATCTGACTTTTCTTTACACTCTTCTGAGGAAAGTATTCACCTTTAGCA 300
DB 362 ATGCACTCTGACTTTTCTTTACACTCTTCTGAGGAAAGTATTCACCTTTAGCA 421
QY 301 TCCCATCAACAATATTTTATTAATAATTCATCTGCTGATCAACAAAGCTTGG 360
DB 422 TCCCATCAACAATATTTTATTAATAATTCATCTGCTGATCAACAAAGCTTGG 481
QY 361 GTTTCATCACTCTCTTGGATGTTTACTCTGAGTGGATGATGAGAGCAATTTGCC 420
DB 482 GTTTCATCACTCTCTTGGATGTTTACTCTGAGTGGATGATGAGAGCAATTTGCC 541
QY 421 CTTCAATATGGAACCAAGTATAGAAAGTTTCCACATGTTGATTAAGTGAATTA 480
DB 542 GTTCAATATGGAACCAAGTATAGAAAGTTTCCACATGTTGATTAAGTGAATTA 601
QY 481 AGAAGCAGTTGGGCTTCTCAAGTTCTTTTGTCTGACTGATGCAATTTATAGT 540
DB 602 AGAAGCAGTTGGGCTTCTCAAGTTCTTTTGTCTGACTGATGCAATTTATAGT 660
QY 541 TCTTACCAATGAGGCACTCTACAGATACAGTTGCTAACTGGGATATCAACAG 600
DB 661 TCTTACCAATGAGGCACTCTACAGATACAGTTGCTAACTGGGATATCAACAG 720
QY 601 CAACAATAAAGAGATGCTGGAATTTGAGATGATGTTGGAGAAAT--GGAATTTAT 658
DB 721 CAACAATAAAGAGATGCTGGAATTTGAGATGATGTTGGAGAAATGCGCACTT 780
QY 659 TGTCTCTGGAATTTGGAATTTGAC-----ATACTGCTCTGTTGGC--TGTG 709
DB 781 TGTCTCTGGAATTTGGAATTTGAC-----ATACTGCTCTGTTGGC--TGTG 840
QY 710 CTTATTCATCTGTA--GTGACTCTTTGACATGAGAGAAATTTTC 751
DB 841 CTTATTCATCTGTA--GTGACTCTTTGACATGAGAGAAATTTTC 883

RESULT 10

BG182296

LOCUS BG182296 796 bp mRNA linear EST 21-Apr-2001
DEFINITION RST1161 Atherys RAGE Library Homo sapiens cDNA, mRNA sequence.
ACCESSION BG182296
VERSION BG182296.1 GI:13703983

KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

REFERENCE 1 (bases 1 to 796)
AUTHORS Harrington,J.J., Sherf,B., Rundlett,S., Jackson,P.D., Perry,R.,
Cain,S., Leventhal,C., Thornton,M., Ramachandran,R.,
Whittington,J., Lerner,L., Costanzo,D., McElligott,K., Boorer,S.,
Mays,R., Smith,E., Veloso,N., Klika,A., Hess,J., Cochren,K., Lo,K.,
Ofebach,J., Danzig,J. and Ducar,M.
Creation of genome-wide protein expression libraries using random
activation of gene expression
Nat. Biotechnol. 19 (5), 440-445 (2001)

JOURNAL 11329013
PUBMED
COMMENT Contact: Scott J. Cain
Athersys, Inc.
3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 216 431 9900
Fax: 216 361 9596
Email: scain@atersys.com

FEATURES
source
1..796
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cell_line="HT1080"
/clone_lib="Athersys RAGE Library"
/note="See 'Creation of Genome-wide Protein Expression
libraries using Random Activation of Gene Expression',
Nature Biotechnology, in press. Note that even though the
cell type indicated is HT1080, since a random activation
method was used, these sequence tags are not necessarily
expressed in HT1080 under normal circumstances."

ORIGIN

Query Match 60.1%; Score 611.4; DB 2; Length 796;
Best Local Similarity 97.2%; Pred. No. 8.3e-152;
Matches 632; Conservative 0; Mismatches 17; Indels 1; Gaps 1;

QY 1 ATGGAAGCAGAAAGACATCAACCAAGAAAGATTGGAAATGAAAGCTTAGAGA 60
DB 147 ATGGAAGCAGAAAGACATCAACCAAGAAAGATTGGAAATGAAAGCTTAGAGA 206
QY 61 AATTAGAAAGACAGATTATTTGATAGAGACAGGAGAGACACAGATGCTAAAAA 120
DB 207 AATTAGAAAGACAGATTATTTGATAGAGACAGGAGAGACACAGATGCTAAAAA 286
QY 121 CTTGTGCTTTTGGATTGACCAAAACGCCATGCTGATGAATTTGACTGCCCTTGA 180
DB 287 CTTGTGCTTTTGGATTGACCAAAACGCCATGCTGATGAATTTGACTGCCCTTGA 326
QY 181 CTTGAGACACAGAGAACTCTTCCACAGTGGACATTCCTCAATTAATAGCTGAT 240
DB 327 CTTGAGACACAGAGAACTCTTCCACAGTGGACATTCCTCAATTAATAGCTGAT 386
QY 241 ATAGCATCTGACTTTTCTTTACACTCTTCTGAGGAAAGTATTCACCTTTAGCA 300
DB 387 ATAGCATCTGACTTTTCTTTACACTCTTCTGAGGAAAGTATTCACCTTTAGCA 446
QY 301 TCCCATCAACAATATTTTATTAATAATTCATCTGCTGATCAACAAAGCTTGG 360
DB 447 TCCCATCAACAATATTTTATTAATAATTCATCTGCTGATCAACAAAGCTTGG 506
QY 361 GTTTCATCACTCTCTTGGCATGTTTACTGCTGAGGAAATTTGACAGCAATTTG 420
DB 507 GTTTCATCACTCTCTTGGCATGTTTACTGCTGAGGAAATTTGACAGCAATTTG 566
QY 421 CTTCAATATGGAACCAAGTATAGAAAGTTTCCACATGTTGATTAAGTGAATTA 480
DB 567 CTTCAATATGGAACCAAGTATAGAAAGTTTCCACATGTTGATTAAGTGAATTA 626
QY 481 AGAAGCAGTTGGGCTTCTCAAGTTCTTTTGTCTGATGATGCAATTTATAGT 540
DB 627 AGAAGCAGTTGGGCTTCTCAAGTTCTTTTGTCTGATGATGCAATTTATAGT 686

QY 541 TCTTACCCATGAGCGGATCTCTACAGATACAGTTGCTTAAGTGGGCATATCAACAGTTC 600
|||||
DB 687 TCTTAGCATGAGCGGATCTCTACAGATCAAGTTCTAACTGGGCATATCAACAGTTC 746
QY 601 CAACAATAAAGAAAGATGCTTGATTTGAGCATGATGTTTGAGAAATGGA 650
|||||
DB 747 CAAC-AAATTAAGAGATGCTTGATTTGAGCATGATGTTTGAGAAATGGA 795
|||||

RESULT 11
CA446381 720 bp mRNA 1linear EST 08-NOV-2002
LOCUS UI-H-EDI-axr-o-23-0-UI.s1 NCI CGAP EDI Homo sapiens cDNA clone
DEFINITION UI-H-EDI-axr-o-23-0-UI 3', mRNA sequence.
ACCESSION CA446381
VERSION CA446381.1 GI:24810801
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 720)
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapdb-rt@mail.nih.gov
Tissue Procurement: Dr. Jose Mercuende
cDNA library preparation: Dr. M. Bento Soares, University of Iowa
DNA library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
from Dr. M. Bento Soares, bento-soares@uiowa.edu
Seq primer: M13 FORWARD
POLYA=yes.

FEATURES
source Location/Qualifiers
1..720
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-EDI-axr-o-23-0-UI"
/tissue_type="Chondrosarcoma"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NCI CGAP EDI"
/notes="Organ: Left Pubic Bone; Vector: pT7T3-Pac
(Pharmacia) with a modified polylinker; Site 1: Bcl I;
Site 2: Not I; NCI CGAP EDI is a normalized cDNA library
containing the following tissue(s): Chondrosarcoma cell
line C55. The library was constructed according to
Bonaldi, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pT7T3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is GCTCAAGGCT.
TAG TISSUE=chondrosarcoma
TAG LIB=UI-H-EDI
TAG_SEQ=CGTCAAGGCT"

ORIGIN
Query Match 59.5%; Score 605.4; DB 6; Length 720;
Best Local Similarity 99.8%; Pred. No. 3.3e-150;
Matches 606; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 411 AATGTCCAACTTCATTAATGGAACAAGTATAGAAAGTTCCCATTTGTTGATAGT 470
|||||
DB 720 AATGTCCAACTTCATTAATGGAACAAGTATAGAAAGTTCCCATTTGTTGATAGT 661
|||||

QY 471 GATGTTACAGAAAGCAAGTTGGGCTTCTCAAGTTCTTTTGGCTGTAATGCAAT 530
|||||
DB 660 GATGTTACAGAAAGCAAGTCGGCTTCTCAAGTTCTTTTGGCTGTAATGCAAT 601
|||||

QY 531 TTATAGTCGTCTTACCCCAATGAGCGATCCACAGATCAAGTGGCTAACTGGGCATA 590
|||||
DB 600 TTATAGTCGTCTTACCCCAATGAGCGATCCACAGATCAAGTGGCTAACTGGGCATA 541
|||||

QY 591 TCACAGGTCACAAACAATAAAGAGATGCTGATTTGAGCATGATGTTTGGAGAAATGA 650
|||||
DB 540 TCACAGGTCACAAACAATAAAGAGATGCTGATTTGAGCATGATGTTTGGAGAAATGA 481
|||||

QY 651 GATTTATGTCGTCTGCGGAATTTGGAGATTTGGCAATACGCTCTGTTGGCTGTGACATC 710
|||||
DB 480 GATTTATGTCGTCTGCGGAATTTGGAGATTTGGCAATACGCTCTGTTGGCTGTGACATC 421
|||||

QY 711 TATTCATCTGAGAGTACTCTTTCACATGAGAGAAATTTCACTATATTCAGAGCAAGCT 770
|||||
DB 420 TATTCATCTGAGAGTACTCTTTCACATGAGAGAAATTTCACTATATTCAGAGCAAGCT 361
|||||

QY 771 AGGAATGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATG 830
|||||
DB 360 AGGAATGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATG 301
|||||

QY 831 GATGATATAAACAATTTGATATGATACCTCCAACTTTTATGATAGCTGTTTCT 890
|||||
DB 300 GATGATATAAACAATTTGATATGATACCTCCAACTTTTATGATAGCTGTTTCT 241
|||||

QY 891 TCCAAATGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATG 950
|||||
DB 240 TCCAAATGTTTCCCTTCTACTGGGCAATACAGCATTTGATTTTGGCTGGAATTAATG 181
|||||

QY 951 ACTGAAGATTAGACATGTTGGAGAGCTCACCAAAATTAACAACATGATATGTTTC 1010
|||||
DB 180 ACTGAAGATTAGACATGTTGGAGAGCTCACCAAAATTAACAACATGATATGTTTC 121
|||||

QY 1011 CCAAGTTG 1017
|||||
DB 120 CCAAGTTG 114
|||||

RESULT 12
CD677954 609 bp mRNA 1linear EST 24-JUN-2003
LOCUS ho24h02.y1 Human Trabecular meshwork cDNA: hohpbg Homo sapiens cDNA
DEFINITION ho24h02.y1 Human Trabecular meshwork cDNA: hohpbg Homo sapiens cDNA
clone ho24h02 5', mRNA sequence.
ACCESSION CD677954
VERSION CD677954.1 GI:32179685
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homidae; Homo.
REFERENCE 1 (bases 1 to 609)
Tomerey,S.I., Wislow,G., Raymond,V., Dubois,S. and Maljukova,I.
Gene expression profile of the human trabecular meshwork: NEIBank
sequence tag analysis
Invest. Ophthalmol. Vis. Sci. 44 (6), 2588-2596 (2003)
JOURNAL PUBLISHED
CONTACT: Wistow G
Section on Molecular Structure and Function
National Eye Institute
6/331, NIH, Bethesda, MD 20892-2740, USA
Tel: 301 402 3452
Fax: 301 496 0078
Email: graeme@helix.nih.gov
Plate: 24 row: h column: 02
Seq primer: M13Rpi reverse primer (ABI).
Location/Qualifiers
1..609
/organism="Homo sapiens"

```

/mol_type="mRNA"
/db_xref="taxon:9606"
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/dev_stage="adult"
/lab_host="EMDH10B"
/clone_lib="Human Trabecular meshwork cDNA: h024h02"
/notes="Organ: Eye; Vector: pSPORT1; The cDNA, directionally cloned in the pSPORT1 vector (Life Technologies, Rockville, MD), was constructed at Bioserve Biotechnology (Laurel, MD) essentially following the protocols of the SuperScript Plasmid System full details of which are contained in the manufacturer's instruction manual (http://www.lifetech.com/). Sublibraries (designated ho, hp, and hq) were made from the first three 35-nt fractions of cDNA from a Sephadex S-500 HR resin column. EST analysis was performed on the unamplified library at the NIH Intramural Sequencing Center (NISC)."

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ORIGIN

Query Match 58.8%; Score 598; DB 6; Length 609;
 Best Local Similarity 99.8%; Pred. No. 3e-148;
 Matches 609; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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QY 189 CACACAGAACTCTTCCACAGTGGCACTTCCAAATTAATAGCTGATTATAGCATC 248
DB 1 CACACAGAACTCTTCCACAGTGGCACTTCCAAATTAATAGCTGATTATAGCATC 59
QY 249 TCTGACTTTCTTTTACACTCTTCTGAGGGAAGTAATCCCTTTAGCACTTCCATCA 308
DB 60 TCTGACTTTCTTTTACACTCTTCTGAGGGAAGTAATCCCTTTAGCACTTCCATCA 119
QY 309 ACAATATTTTAAATTAATCCAGTGGTATCAACAAAGTCTTGCAATGGTTCCAT 368
DB 120 ACAATATTTTAAATTAATCCAGTGGTATCAACAAAGTCTTGCAATGGTTCCAT 179
QY 369 CACTCTCTTGGCACTTGTACCTGCAAGTGTATAGCAGCAATGTCCCACTTCA 428
DB 180 CACTCTCTTGGCACTTGTACCTGCAAGTGTATAGCAGCAATGTCCCACTTCA 239
QY 429 TGGACCAAGTATTAAGAGTTTCCACTGTTGATAGTGAATGTTAAACAAGAA 488
DB 240 TGGACCAAGTATTAAGAGTTTCCACTGTTGATAGTGAATGTTAAACAAGAA 299
QY 489 GTTTGGGCTTCTAGTTCTTTTGTGCTGACATGATGATTAATGCTGCTTACC 548
DB 300 GTTTGGGCTTCTAGTTCTTTTGTGCTGACATGATGATTAATGCTGCTTACC 359
QY 549 AATGAGGCGATCTTACAGATACAAAGTGTCTAACTGGGCAATCAAGGTTCCAA 608
DB 360 AATGAGGCGATCTTACAGATACAAAGTGTCTAACTGGGCAATCAAGGTTCCAA 419
QY 609 TAAAGAAATGCTGATGATGATGTTGGAATGAGATTTATGTCTCTGGG 668
DB 420 TAAAGAAATGCTGATGATGATGTTGGAATGAGATTTATGTCTCTGGG 479
QY 669 AATTGGGATTTGGCAATCTGCTGTGTGCTGATGATGATTTCCATCTGTGATGA 728
DB 480 AATTGGGATTTGGCAATCTGCTGTGTGCTGATGATGATTTCCATCTGTGATGA 539
QY 729 CTCTTTGACATGAGAAATTTCTATATTTAGAGCAAGCTGAGATTTGTTCCCTTC 788
DB 540 CTCTTTGACATGAGAAATTTCTATATTTAGAGCAAGCTGAGATTTGTTCCCTTC 599
QY 789 ACTGGGACACA 798
DB 600 ACTGGGACACA 609

```

RESULT 13
 DN997716 697 bp mRNA linear EST 17-MAY-2005
 LOCUS DN997716 697 bp mRNA linear EST 17-MAY-2005
 DEFINITION TC115356 Human breast cancer tissue, large insert, pcwv expression

1 library Homo sapiens cDNA clone TC115356 5' similar to Homo sapiens
 six transmembrane epithelial antigen of the prostate 1 (STEAP1),
 mRNA sequence.

ACCESSION DN997716 GI:66257543
 VERSION DN997716
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 697)
 Birkett,C., Cho,J., Gau,Y., Hamer,R., Kelly,S., Kovacs,K., Liu,L.,
 Liu,X., Potter,J., Sachs,A., Shu,Y., Sun,Z., Wong,D., Wu,M.,
 Zhang,X., Jay,G. and He,W.
 High-throughput cloning of full-length human cDNAs directly from
 cDNA libraries optimized for large and rare transcripts

JOURNAL Unpublished (2005)
 COMMENT Contact: Kovacs, KF
 High Throughput cDNA Cloning
 Origene Technologies, Inc. (www.origene.com)
 6 Taft Court, Suite 100, Rockville, MD 20850, USA
 Tel: 301 340 3188
 Fax: 301 340 8606
 Email: CDNA@origene.com

This EST submission is part of an on-going human full-length
 cloning project at Origene Technologies, Inc.
 Please contact Origene for access.
 Origene Technologies, Inc.
 6 Taft Ct. Suite 100
 Rockville, MD 20850
 Tel: (301) 340-3188
 http://www.origene.com
 Seq primer: pcwv6 5prime forward vector primer, Origene
 Technologies Inc.

FEATURES

source Location/Qualifiers
 1..697

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/mol_type="Homo sapiens"
/db_xref="taxon:9606"
/clone="TC115356"
/tissue_type="Breast cancer"
/clone_lib="Human breast cancer tissue, large insert, pcwv
expression library"
/notes="Organ: Mammary gland (cancer tissue); Vector:
pcwv6-XL5, Site 1: EcoRI, Site 2: XhoI/SalI compatible end
ligatio; Oligo-dT primed reverse transcription optimized
for large and GC rich mRNA transcripts; cDNA size
selection, optimized ligation for large inserts into
mammalian expression vector, random clones selected for
end sequence verification of full-length genes"

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ORIGIN

Query Match 58.8%; Score 598; DB 8; Length 697;
 Best Local Similarity 100.0%; Pred. No. 3.1e-148;
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGGAAGAGAAAGACATCAACCAAGAACTTTGAAATGAAGCTTAGAGA 60
DB 100 ATGGAAGAGAAAGACATCAACCAAGAACTTTGAAATGAAGCTTAGAGA 159
QY 61 AATTGGAAGAGAGCATATTGCTAAGACAGGAGAGACCGACATGCTAAAGA 120
DB 160 AATTGGAAGAGAGCATATTGCTAAGACAGGAGAGACCGACATGCTAAAGA 219
QY 121 CCTGTCTTTTGCATTGACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCAGA 180
DB 220 CCTGTCTTTTGCATTGACCAACAGCCCATGCTGATGAATTTGACTGCCCTTCAGA 279
QY 181 CTTCAGACACACAGGAACCTTTTCCACAGTGGCACTTGCCAAATTAATTAAGTAT 240
DB 280 CTTCAGACACACAGGAACCTTTTCCACAGTGGCACTTGCCAAATTAATTAAGTAT 339

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Oy	241	TTAGATGTCGACGTTTCTTTAACTCTTCGAGGGAAGTAATCACCCTTGCACT	300
Db	340	ATAGATCTCGACTTTCCTTTACCTCTTCGAGGGAAGTAATCACCCTTGCACT	399
Oy	301	TCCCATCAACATATTTTATPAAATTCGAATCTGTCATCAACAAAGTCCTGCATG	360
Db	400	TCCCATCAACATATTTTATPAAATTCGAATCTGTCATCAACAAAGTCCTGCATG	459
Oy	361	GTTCGCATCACTCTCTTGCAATGGTTTACCTGCCAGGTGTGATPAGCAGCAATGTCCAA	420
Db	460	GTTCGCATCACTCTCTTGCAATGGTTTACCTGCCAGGTGTGATPAGCAGCAATGTCCAA	519
Oy	421	CTTCATATGGAACCAAGTATPAGAAGTTTCCACATTGGTTGGATTAAGTATGTATACA	480
Db	520	CTTCATATGGAACCAAGTATPAGAAGTTTCCACATTGGTTGGATTAAGTATGTATACA	579
Oy	481	AGAAAGCAGTTGGGCTTCTCAGTTTCTTTTGTGTGATCGATGCAATTATAGTGTG	540
Db	580	AGAAAGCAGTTGGGCTTCTCAGTTTCTTTTGTGTGATCGATGCAATTATATAGTGTG	639
Oy	541	TCTTACCAGATGAGGCGATCTCAAGATPACAAGTTGCTPAACTGGGCAATATCAACAG	598
Db	640	TCTTACCAGATGAGGCGATCTCAAGATPACAAGTTGCTPAACTGGGCAATATCAACAG	697

RESULT 14			
LOCUS	BE881257		
DEFINITION	BE881257	920 bp	mRNA linear EST 20-OCT-2000
	601492338r1	NIH_MGC_69	Homo sapiens cDNA clone IMAGE3894657 5',
	mRNA sequence.		
ACCESSION	BE881257		
VERSION	BE881257.1	GI:10330033	
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		

REFERENCE	1 (bases 1 to 920)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D.

cDNA library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MCC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.lnl.gov>
 Plate: L14M684 row: k column: 10
 High quality sequence stop: 732.

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FEATURES
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                /clone="IMAGE:3894657"
                /tissue_type="large cell carcinoma, undifferentiated"
                /lab_host="DH10b (phage-resistant)"
                /clone_1b="NH_MGC_63"
                /note="Organ: lung; Vector: pCMV-SPORTe; site_1: NotI;
                site_2: SalI; cloned unidirectionally. Primer: Oligo dC.
                Average insert size 1.1 kb. Library constructed by Life
                Technologies."

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ORIGIN	Query Match	Score	597.8;	DB 2:	Length	920;
	Best Local Similarity	93.4%;	Pred.	No. 3.7e-146;		
	Matches 724;	Conservative	0;	Mismatches	37;	Indels 14;
						Gaps 9;
QY	138	GCACCAAAACGCCCATGTGATGAATTTTGACTGCTCCCTTCAGAACTTCAGACACACAGAGA	197			

Db	1	GCACCAACAGCCCATGCTGATGATTAATTTGAATCGCCCTTCAGAACTTCAGACACACAGGA	60
QY	198	ACTCTTTCCAGAGTGGCACTTGGCAATTTAAATATAGCGCTAATTATATACATCTCGACTTT	257
Db	61	ACTCTTTCCAGAGTGGCACTTGGCAATTTAAATATAGCGCTAATTATATACATCTCGACTTT	120
QY	258	TCTTTACAGCTCTTCTGAGGAGAGTAATTCACCCCTTTAGCAACTTCCCATCAACATAATTT	317
Db	121	TCTTTACAGCTCTTCTGAGGAGAGTAATTCACCCCTTTAGCAACTTCCCATCAACATAATTT	180
QY	318	TTATTAATTCATCAATCTCGTATCAACAAAGTCTTGCCAAATGGTTTCATCACTCTCTT	377
Db	181	TTATTAATTCATCAATCTCGTATCAACAAAGTCTTGCCAAATGGTTTCATCACTCTCTT	240
QY	378	GGCAATGGTTTACCTGCGAGGCTGATAGACAGCAATGTCCAACTTCAATATGGAACCA	437
Db	241	GGCA-TGGTTTACCTGCGAGGCTGATAGACAGCA-TGTCCAACTTCAATATGGAACCA	298
QY	438	GTATPAGAAATTTCCACATTTGGTTGGATATAGTGATGTTPAACAGAAAGCAGTTTGGGCT	497
Db	299	GTATPAGAAATTTCCAC-TGGTTGGATATAGTGATGTTPAACAGAAAGCAG-TTGGGCT	356
QY	498	TCTCAGTTCTTTTGTGCTGTAAGTCGATGCAATTTAATAGTGTCTTAACCAATGAGGCG	557
Db	357	TCTCAGTTCT-TTTTGTGCTGTAAGTCGATGCAATTTAATAGTGTCTTAACCAATGAGGCG	415
QY	558	ATCCPACAGATACAAAGTTGTCTPAACTGGGGCATATCAACGGTCCAAACAAATTAAGAAGA	617
Db	416	ATCCPACAGATACAAAGTTGTCTPAACTGGGGCATATCAACGGTCCAAACAAATTAAGAAGA	475
QY	618	TGCGTCGATTTGAGCATGATGTTTGGAGATGAGATTTATGTGTCTGTGGAAATTTGGG	677
Db	476	TGCGTCGATTTGAGCATGATG-TTGAGATGAGATTTATGTGTCTGTGGAAATTTGGG	534
QY	678	ATTGGCAATACTGCGCTGTGTGGCTGTGACATCTAATCAACCTGTGAGTGACTCTTTGAC	737
Db	535	ATTGGCAATACTGCGCTGTGTGGCTGTGACATCTAATCAACCTGTGAGTGACTCTTTGAC	594
QY	728	ATTGAGAGAAATTCACATATTTTCAGAGCAAGCTAGAAATTTTCCCTTACTAGGGCAC	797
Db	595	ATTGAGAGAAATTCACATATTTTCAGAGCAAGCTAGAA-TGTGTCTCTTACTAGGGCAC	653
QY	798	AATACAGCAATGGAATTTTGTGCTGGAATTAAGTGAGATAGATATTAATAACAATTTGATGTA	857
Db	654	AATACAGCAATGGAATTT---GGCTGGAATTAAGTGAGATAGATATA----AATCTGTGTGTA	706
QY	858	TACACTTCCAACTTTATGATAGCTGTTTTCCTTCCAAATGTGTGCTCCGAATATTT	912
Db	707	TACACTTCCAACTTTATGATAGCTGTTTTCCTTCCAAATGTGTCTCTTATTAAGTATAT	761

RESULT 15					
LOCUS	CX757709				
DEFINITION	CX757709	742 bp	mRNA	linear	EST 24-JAN-2005
ACCESSION	AGENCOURT 41384324	NIH_MGC_218	Homo sapiens	cDNA clone	
VERSION	IMAGE:777291.3,				
KEYWORDS	CX757709				
SOURCE	CX757709.1	GI:58054365			
ORGANISM	EST.				
	Homo sapiens				
	Homo sapiens (human)				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;				
	Homnidae; Homo.				
	1 (bases 1 to 742)				
REFERENCE	NIH-MGC http://mgc.nci.nih.gov/ .				
AUTHORS	National Institutes of Health, Mammalian Gene Collection (MGC)				
TITLE	Unpublished (1999)				
JOURNAL	Contract: Daniela S. Gerhard, Ph.D.				
COMMENT	Office of Cancer Genomics / NIH				
	National Cancer Institute / NIH				
	Bldg. 31 Rm10A07 Bethesda, MD 20892				

Email: cgabs-r@mail.nih.gov
 Tissue Procurement: Meri Filipo
 cDNA Library Preparation: Express Genomics
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.lnl.gov

Plate: L1AM15916 row: h column: 13
 High quality sequence start: 6
 High quality sequence stop: 726.

FEATURES

Location/Qualifiers
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 /db_xref="taxon:9606"
 /clone="IMAGE:7772991"
 /tissue_type="pluripotent cell line derived from
 blastocyst inner cell mass"
 /lab_host="DH10B TONa"
 /clone_lib="NIH MGC 278"
 /note="Organ: Blastocyst; Vector: pExpress-1; Site 1:
 EcoRV; Site 2: NotI; RNA obtained from pluripotent cell
 line derived from blastocyst inner cell mass (cell line
 HSF-1.14, NIH Registry designation UC01. Positive for OCT4
 expression by RT-PCR, positive for SSEA-3, SSEA-4,
 Tra-1-81, Tra-1-60 by immunofluorescence. Negative for
 SSEA-1 by immunofluorescence. Passage 35. This line is a
 subclone of the parental line; the parental line was
 subcloned to remove aneuploid cells). cDNA was primed
 using oligo-dT primer:
 5'-pGACTAGTCTGATCGCGCGCGCCGCC(Tr)25-3' and cloned into
 the EcoRV/NotI sites of pExpress-1. Size selection >1.25
 kb resulted in an average insert size of 1.9 kb. This
 primary library is non-normalized (normalized primary
 library is NIH_MGC_279) and was constructed by Express
 Genomics (Frederick, MD). Note: this is a Mammalian Gene
 Collection library."

ORIGIN

Query Match 58.6%; Score 596; DB 8; Length 742;
 Best Local Similarity 97.6%; Pred. No. 1,1e-147;
 Matches 605; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

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QY 1 ATGGAAGGAGAAAGACATCAACAAGAACTTTGCAAAATGAAAGCTTAGAGAG 60
DB 123 ATGGAAGGAGAAAGACATCAACAAGAAATTTGCAAAATGAAAGCTTAGAGAG 182
QY 61 AATTTAGAGAGAGCGATTATTGCAATAGAGACACGAGAGAGACAGCATGCTAAAAAGA 120
DB 183 AATTTAGAGAGAGCGATTATTGCAATAGAGACACGAGAGAGACAGCATGCTAAAAAGA 242
QY 121 CCTGTCCTTTTGATTTGCAACCAAGCCCATGCTGATGAATTGACTGCCCTTCAGAA 180
DB 243 CCTGTCCTTTTGATTTGCAACCAAGCCCATGCTGATGAATTGACTGCCCTTCAGAA 302
QY 181 CTTGACACACACAGGACCTTTTGCACAGTGGCACTTGGCAATTAATAGCTGCTATT 240
DB 303 CTTGACACACACAGGACCTTTTGCACAGTGGCACTTGGCAATTAATAGCTGCTATT 362
QY 241 ATGACATCTCTGACTTTTCTTACACTCTTCTGAGGAGATTAATCACCTTTAGCACT 300
DB 363 ATGACATCTCTGACTTTTCTTACACTCTTCTGAGGAGATTAATCACCTTTAGCACT 422
QY 301 TCCCATCAACATATTTTATTAATTTCCATCTCTGTCATCAACAAAGCTTTGCCAATG 360
DB 423 TCCCATCAACATATTTTATTAATTTCCATCTCTGTCATCAACAAAGCTTTGCCAATG 482
QY 361 GTTTCATCACTCTCTTGGCATTTGTTTACTGCGAGAGTGTATAGACAAATGTCGAA 420
DB 483 GTTTCATCACTCTCTTGGCATTTGTTTACTGCGAGAGTGTATAGACAAATGTCGAA 542
QY 421 CTTCAATATGAGAACCAAGTATAGAAAGTTTCCACTTGGTTGGATTAAGTATGTTAACA 480

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DB 543 CTTCAATATGAGAACCAAGTATAGAAAGTTTCCACTTGGTTGGATTAAGTATGTTAACA 602
QY 481 AGAAGCAGTTGGGCTTCAGATTCTTTTGGCTGTACTGATGCAATTTATAGTCG 540
DB 603 AGAAGCAGTTGGGCTTCAGATTCTTTTGGCTGTACTGATGCAATTTATAGTCG 662
QY 541 TCTTACCAATGAGGCGATCTTACAGATCAAGTTGCTAAACTGGGCATATCAACAGGTC 600
DB 663 TCTTACCAATGAGGCGATCTTACAGATCAAGTTGCTAAACTGGGCATATCAACAGGTC 722
QY 601 CAACAAATTAAGAGATGC 620
DB 723 CAACAAATTAAGAGATGC 742

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